

# Internal Exam Time Table.

Paper 2.

Time.

* [21-11-2022]	9:30 - 10:15 - chem. I	Bot <u>V</u> / phy.
	10:30 - 11:15 - chem. II	Bot <u>VI</u> / phy.
* <u>22-11-2022</u>	9:30 - 10:15 - zoo/maths I	micoo / comp <u>V</u>
	10:30 - 11:15 - zoo/maths II	micoo / comp <u>VI</u>
* <u>23-11-2022</u>	Bot / phy - I	chem <u>V</u>
	Bot / phy II	chem <u>VI</u>
* 24-11-22	micoo / comp <u>V</u>	zoo / maths <u>V</u>
	micoo / comp <u>VI</u>	zoo / maths <u>VI</u>
* 25-11-22	English -	Environment

## lectures time Table.

11:25 - 12:05	lec. I
12:05 - 12:45	lec. II
12:45 - 1:05	Break
1:05 - 1:45	lec. III
1:45 - 2:30	lec. IV

Block	Supervision	Date/Time	Year/Subject	Sign
①	Bsc Bikkad / Ushede madam	23-11-22 9:30 to 10:15	Bsc-I - Botany (24) Bsc-III - Chem (37) Bsc-I - <del>math</del> I Physics (40)	<del>Ushede</del>
②	Jadhav S N	23-11-22 9:30 to 10:15	Bsc III Micro (5) Bsc II - Chem (19) <del>Bsc I - Botany</del>	Jadhav S N
①	Dindore madam	23-11-22 10:30 to 11:15	Bsc I - Botany II (24) Bsc I physics (10)	Kriyanka
②	Jadhav S N	23-11-22	Bsc II - Chem (19)	Jadhav S N
①	Chodake Sir	24-11-22	Bsc-I micro <del>Bsc-I comp sci</del> Bsc-III Chem <del>comp</del>	
②	Geund madam	24-11-22	Bsc-II' zoo Bsc II math Bsc-III micro	

Block	Super				No. of papers	
①	Jadhav S.N.	21-11-22	9.30 to 10.15	BSC-I Chemi	16	
				BSC-II Chemi	20	
②	Ghodak. N.N.	21.11.22	9.30-10.15	BSC I (chem)	18	
				BSC-II (Bot)	3	
				BSC-III chem	9	
				micro	6	
3)	Urhadde P.N.	21-11-22	9.30 to 10.15	BSC-II (Bot)	13	<u>Gotale</u>
				BSC-II (Phys)	5	
1)	Jadhav S.M.	21-11-22	10.30 to 11.15	BSC-I (chem)	-16	Jadhav.
				BSC-II (Bot)	-3	
2	Urhadde P.N.	21-11-22	10.30 to 11.15	BSC I Chem	-19	<u>Gotale</u>
				BSC-II (Bot)	-13	
①	Ground M.N.	22-11-22	9.30-10.15	BSC I ZOO	24	<u>Ground</u>
				BSC-II Chem	37	
				BSC-II math	11	
②	Bachute R.S.	22.11.22	9.30-10.15	BSC-II	16	
				BSC-III	06	
				micro		
				BSC-III - comp	06	
①	Ground M.N.	22.11.22	10.30 to 11.15	BSC I zoo	-25	
				BSC II math	11	
②	Jadhav R.P.	22.11.22	10.30 to 11.15	BSC I micro	16	<u>Ground</u>
				BSC II comp	06	

1

Jadhav S.N.

Time

subject

## Internal exam supervision 2022-2023

Date

Block

Supervision

	1 <sup>st</sup> block	Jadhav S N
21/11/2022	2 <sup>nd</sup> block	Ghodake N N
	3 <sup>rd</sup> block	Urhade P N.

	1 <sup>st</sup> block	Gund M. N.
22/11/2022	2 <sup>nd</sup> block	Bachute R.S.
	3 <sup>rd</sup> block	Jadhav R.P

	1 <sup>st</sup> block	Bikkad A.A
23/11/2022	2 <sup>nd</sup> block	Jadhav S.N
	3 <sup>rd</sup> block	Dindore P.A

	1 <sup>st</sup> block	Ghodake N.N
24/11/2022	2 <sup>nd</sup> block	Gund M.N
	3 <sup>rd</sup> block	Bikkad A.A

	1 <sup>st</sup> block	Bachute R.S
25/11/2022	2 <sup>nd</sup> block	Urhade P.N
	3 <sup>rd</sup> block	Dindore P.A



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Dnyanteerth Nagar, Kegaon, Solapur-Pune National Highway, Solapur- 413255, Maharashtra (India)  
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B.Sc(Hons)(with Credits) - Regular-CBCS Pattern 2019 - B.Sc.-II - Sem-IV For Mar-2022

College : Hemuji Chandele College of B.C.S. (HCCB), Shelgoan, Shelgoan, Barshi, Solapur Pin: 413221

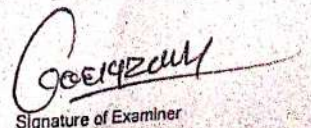
Paper Name: Botany Practical (19201403)

Practical UA (Max Mark: 80 Min Mark: 32)

Count of Student: 44

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
1	005628	2020032500056282	KANADE VAISHNAVI GURUNATH		
2	006294	2020032500062947	TATE PRATIKSHA ANNASAHEB	63	63
3	006296	2020032500062963	TAKBHATE RUJUJA VIJAY	62	62
4	006297	2020032500062971	MANE APEKSHA UMAKANT	58	58
5	006300	2020032500063003	PUNEKAR JAY SANTOSH	58	58
6	006301	2020032500063011	NAVGUDE SANJANA TUKARAM	06	06
7	006390	2020032500063904	GAVALI PRITI RAJENDRA	78	78
8	006392	2020032500063927	PAWAR RUTIKA SHRIMANT	57	57
9	007448	2020032500074481	BODHALE RESHMA DHARMRAJ	63	63
10	009383	2020032500093837	JADHAV APEKSHA ASHOK	57	57
11	009384	2020032500093845	MALI PRIYANKA KUMAR	62	62
12	009386	2020032500093861	DALAVE SWAPNIL SANTOSH	70	70
13	009387	2020032500093876	KAPSE VIJAYKUMAR BHARAT	60	60
14	012164	2020032500121646	WAGHMARE PRAJWAL DATTATRAY	06	06
15	012165	2020032500121654	GHODKE KUNAL MAHADEV	59	59
16	012944	2020032500129441	WANKHARE SANIKA NANASAHEB	61	61
17	013425	2020032500134256	BANDGAR TEJAS RAJESH	68	68
18	013431	2020032500134314	BANDGAR TEJAS RAJESH	45	45
19	013431	2020032500134314	YEDKE PRUTHVIRAJ SIDDHU	38	38
19	013804	2020032500138045	JADHAV PRIYANKA KERABA	54	54
20	013805	2020032500138053	KOLI SUSHMA SHANKAR	65	65
21	013806	2020032500138061	MALI PRADNYA RAJENDRA	64	64
22	013807	2020032500138076	MANE AISHWARYA RANJEET	64	64
23	013809	2020032500138092	KALE ASMITA ANIL	20. (ub)	
23	013809	2020032500138092	KALE ASMITA ANIL	79	79
24	013820	2020032500138207	KARANDE SRUSHTI GANESH	06	06
25	013821	2020032500138215	INGOLE DATTATRAY SHRIDHAR	61	61
26	013822	2020032500138223	SUTAR SARANG BHARAT	39	39
27	013823	2020032500138231	THITE SUJIT NAMDEV	57	57
28	013982	2020032500139822	GATE ANIKET BALASAHEB	06	06

Seal

  
Signature of Examiner

Date



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College : Hemuji Chandele College of B.C.S. (HCCB), Shelgoan, Shelgoan, Barshi, Solapur Pin: 413221

Paper Name: Botany Practical (19201403)		Practical UA (Max Mark: 80 Min Mark: 32)		Count of Student: 44	
Sr. No.	Seat Number	PRN	Student Name	Marks	Total
29	013984	2020032500139845	JADHAV AKSHAY PARMESHWAR	40	40
30	013986	2020032500139861	BEG SHAHRUKH SHAFIK	38	38
31	013987	2020032500139876	GATE SWAPNIL UMESH	42	42
32	014071	2020032500140713	HANGARKAR SMITA DATTATRAY	69	69
33	014664	2020032500146644	MANE PRADNYA PRAMOD	70	70
34	014667	2020032500146675	JAGTAP GODAVARI DATTATRAY	55	55
35	014669	2020032500146691	SAYYAD SULEMAN VILAYATAPASHA	47	47
36	014670	2020032500146702	BADGUDE RUTUJA SUNIL	71	71
37	014680	2020032500146806	SAYYAD SAMINA KHUDBUDDIN	78	78
38	014682	2020032500146822	MANE SWAPNALI SUHAS	62	62
39	014685	2020032500146853	BARBADE MRUNAL MAHADEO	80	80
40	015071	2020032500150715	CHAVAN DNYANESHWARI VISHNU	75	75
41	015255	2020032500152552	CHAVAN PARMESHWAR SHRIHARI	38	38
42	015256	2020032500152567	NAGANE PRATIKSHA BHANUDAS	72	72
43	015258	2020032500152583	KASHID SNEHAL SANJAY	70	70
44	017701	2020032500177012	DHAVANE DNYANESHWARI RANGNATH	75	75



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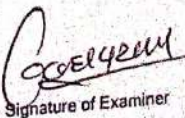
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College : Hemuji Chandele College of B.C.S. (HCCB), Shelgoan, Shelgoan, Barshi, Solapur Pin: 413221

Paper Name: Botany Practical (19201403)			Practical CA	(Max Mark: 20 Min Mark: 8)	Count of Stu
Sr. No.	Seat Number	PRN	Student Name	Marks	
1	005628	2020032500056282	KANADE VAISHNAVI GURUNATH	17	
2	006294	2020032500062947	TATE PRATIKSHA ANNASAHEB	17	
3	006296	2020032500062963	TAKBHATE RUJUJA VIJAY	16	
4	006297	2020032500062971	MANE APEKSHA UMAKANT	15	
5	006300	2020032500063003	PUNEKAR JAY SANTOSH	16	
6	006301	2020032500063011	NAVGUDE SANJANA TUKARAM	19	
7	006390	2020032500063904	GAVALI PRITI RAJENDRA	15	
8	006392	2020032500063927	PAWAR RUTIKA SHRIMANT	17	
9	007448	2020032500074481	BODHALE RESHMA DHARMRAJ	17	
10	009383	2020032500093837	JADHAV APEKSHA ASHOK	16	
11	009384	2020032500093845	MALI PRIYANKA KUMAR	18	
12	009386	2020032500093861	DALAVE SWAPNIL SANTOSH	17	
13	009387	2020032500093876	KAPSE VIJAYKUMAR BHARAT	ab	
14	012164	2020032500121646	WAGHMARE PRAJWAL DATTATRAY	15	
15	012165	2020032500121654	GHODKE KUNAL MAHADEV	19	
16	012944	2020032500129441	WANKHARE SANIKA NANASAHEB	18	
17	013425	2020032500134256	BANDGAR TEJAS RAJESH	16	
18	013431	2020032500134314	YEDKE PRUTHVIRAJ SIDDHU	15	
19	013804	2020032500138045	JADHAV PRIYANKA KERABA	17	
20	013805	2020032500138053	KOLI SUSHMA SHANKAR	18	
21	013806	2020032500138061	MALI PRADNYA RAJENDRA	17	
22	013807	2020032500138076	MANE AISHWARYA RANJEET	ab	
23	013809	2020032500138092	KALE ASMITA ANIL	19	
24	013820	2020032500138207	KARANDE SRUSHTI GANESH	15	
25	013821	2020032500138215	INGOLE DATTATRAY SHRIDHAR	15	
26	013822	2020032500138223	SUTAR SARANG BHARAT	14	
27	013823	2020032500138231	THITE SUJIT NAMDEV	15	
28	013982	2020032500139822	GATE ANIKET BALASAHEB	ab	

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College : Hemuji Chandele College of B.C.S. (HCCB), Shelgoan, Shelgoan, Barshi, Solapur Pin: 413221

Paper Name: Botany Practical (10201403)		Practical CA (Max Mark: 20 Min Mark: 8)		Count of Student: 44	
Sr. No.	Seat Number	PRN	Student Name	Marks	Total
29	013984	2020032500139845	JADHAV AKSHAY PARMESHWAR	18	18
30	013986	2020032500139861	BEG SHAHRUKH SHAFIK	15	15
31	013987	2020032500139876	GATE SWAPNIL UMESH	15	15
32	014071	2020032500140713	HANGARKAR SMITA DATTATRAY	18	18
33	014664	2020032500146644	MANE PRADNYA PRAMOD	16	16
34	014667	2020032500146675	JAGTAP GODAVARI DATTATRAY	15	15
35	014669	2020032500146691	SAYYAD SULEMAN VILAYATAPASHA	14	14
36	014670	2020032500146702	BADGUDE RUTUJA SUNIL	17	17
37	014680	2020032500146806	SAYYAD SAMINA KHUDBUDDIN	18	18
38	014682	2020032500146822	MANE SWAPNALI SUHAS	18	18
39	014685	2020032500146853	BARBADE MRUNAL MAHADEO	20	20
40	015071	2020032500150715	CHAVAN DNYANESHWARI VISHNU	18	18
41	015255	2020032500152552	CHAVAN PARMESHWAR SHRIHARI	14	14
42	015256	2020032500152567	NAGANE PRATIKSHA BHANUDAS	17	17
43	015258	2020032500152583	KASHID SNEHAL SANJAY	17	17
44	017701	2020032500177012	DHAVANE DNYANESHWARI RANGNATH	18	18

*Ganesh*

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B.Sc(Hons)(with Credits) - Regular-CBCS Pattern 2019 - B.Sc.-II - Sem-IV For Mar-2022  
College : Hemuji Chandele College of B.C.S. (HCCB), Shelgoan, Shelgoan, Barshi, Solapur Pin: 413221

Paper Name: Botany-VIII (19201402)

Theory CA

(Max Mark: 10 Min Mark: 4)

Count of Students

Sr. No.	Seat Number	PRN	Student Name	Marks	Count of Students
1	005628	2020032500056282	KANADE VAISHNAVI GURUNATH	08	C
2	006294	2020032500062947	TATE PRATIKSHA ANNASAHEB	08	C
3	006296	2020032500062963	TAKBHATE RUJUJA VIJAY	05	
4	006297	2020032500062971	MANE APEKSHA UMAKANT	06	
5	006300	2020032500063003	PUNEKAR JAY SANTOSH	06	
6	006301	2020032500063011	NAVGUDE SANJANA TUKARAM	09	
7	006390	2020032500063904	GAVALI PRITI RAJENDRA	07	E
8	006392	2020032500063927	PAWAR RUTIKA SHRIMANT	08	C
9	007448	2020032500074481	BODHALE RESHMA DHARMRAJ	07	C
10	009383	2020032500093837	JADHAV APEKSHA ASHOK	05	
11	009384	2020032500093845	MALI PRIYANKA KUMAR	08	
12	009386	2020032500093861	DALAVE SWAPNIL SANTOSH	07	
13	009387	2020032500093876	KAPSE VIJAYKUMAR BHARAT	05	C
14	012164	2020032500121646	WAGHMARE PRAJWAL DATTATRAY	06	
15	012165	2020032500121654	GHODKE KUNAL MAHADEV	07	
16	012944	2020032500129441	WANKHARE SANIKA NANASAHEB	08	
17	013425	2020032500134256	BANDGAR TEJAS RAJESH	04	
18	013431	2020032500134314	YEDKE PRUTHVIRAJ SIDDHU	05	
19	013804	2020032500138045	JADHAV PRIYANKA KERABA	07	
20	013805	2020032500138053	KOLI SUSHMA SHANKAR	06	
21	013806	2020032500138061	MALI PRADNYA RAJENDRA	09	
22	013807	2020032500138076	MANE AISHWARYA RANJEET	06	
23	013809	2020032500138092	KALE ASMITA ANIL	04	
24	013820	2020032500138207	KARANDE SRUSHTI GANESH	06	
25	013821	2020032500138215	INGOLE DATTATRAY SHRIDHAR	04	
26	013822	2020032500138223	SUTAR SARANG BHARAT	06	
27	013823	2020032500138231	THITE SUJIT NAMDEV	04	
28	013982	2020032500139822	GATE ANIKET BALASAHEB	05	

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Date

# Punyashlok Ahilyadevi Holkar Solapur University

Dnyantooth Nagar, Region, Solapur-Pune National Highway, Solapur- 413265, Maharashtra (India)

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B.Sc(Hons)(with Credits) - Regular-CBCS Pattern 2019 - B.Sc.-II - Sem-IV For Mar-2022

College : Hemuji Chandale College of B.C.S. (HCCB), Shelgoan, Shelgoan, Barshi, Solapur Pin: 413221

Paper Name:

Botany-VIII (19201402)

Theory CA

(Max Mark: 10 Min Mark: 4)

Count of Student: 44

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
29	013984	2020032500139845	JADHAV AKSHAY PARMESHWAR	05	05
30	013986	2020032500139861	BEG SHAHRUKH SHAFIK	05	05
31	013987	2020032500139876	GATE SWAPNIL UMESH	04	04
32	014071	2020032500140713	HANGARKAR SMITA DATTATRAY	07	07
33	014664	2020032500146644	MANE PRADNYA PRAMOD	08	08
34	014667	2020032500146675	JAGTAP GODAVARI DATTATRAY	04	04
35	014669	2020032500146691	SAYYAD SULEMAN VILAYATAPASHA	04	04
36	014670	2020032500146702	BADGUDE RUTUJA SUNIL	05	05
37	014680	2020032500146806	SAYYAD SAMINA KHUDBUDDIN	09	09
38	014682	2020032500146822	MANE SWAPNALI SUHAS	04	04
39	014685	2020032500146853	BARBADE MRUNAL MAHADEO	10	10
40	015071	2020032500150715	CHAVAN DNYANESHWARI VISHNU	09	09
41	015255	2020032500152552	CHAVAN PARMESHWAR SHRIHARI	05	05
42	015256	2020032500152567	NAGANE PRATIKSHA BHANUDAS	08	08
43	015258	2020032500152583	KASHID SNEHAL SANJAY	08	08
44	017701	2020032500177012	DHAVANE DNYANESHWARI RANGNATH	09	09



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Dnyanteshwar Nagar, Kegaon, Solapur-Pune National Highway, Solapur-413255, Maharashtra (India)

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## Blank Mark List For

B.Sc(Hons)(with Credits) - Regular-CBCS Pattern 2019 - B.Sc.-II - Sem-IV For Mar-2022

College : Hemuji Chandele College of B.C.S. (HCCB), Shelgoan, Shelgoan, Barshi, Solapur Pin: 413221

Paper Name: Botany-VII (19201401) Theory CA (Max Mark: 10 Min Mark: 4) Count of Student

Sr. No.	Seat Number	PRN	Student Name	Marks	
1	005628	2020032500056282	KANADE VAISHNAVI GURUNATH	06	
2	006294	2020032500062947	TATE PRATIKSHA ANNASAHEB	05	
3	006296	2020032500062963	TAKBHATE RUJUJA VIJAY	01	
4	006297	2020032500062971	MANE APEKSHA UMAKANT	05	
5	006300	2020032500063003	PUNEKAR JAY SANTOSH	04	e
6	006301	2020032500063011	NAVGUDE SANJANA TUKARAM	10	1
7	006390	2020032500063904	GAVALI PRITI RAJENDRA	01	1
8	006392	2020032500063927	PAWAR RUTIKA SHRIMANT	04	c
9	007448	2020032500074481	BODHALE RESHMA DHARMRAJ	04	1
10	009383	2020032500093837	JADHAV APEKSHA ASHOK	04	e
11	009384	2020032500093845	MALI PRIYANKA KUMAR	06	e
12	009386	2020032500093861	DALAVE SWAPNIL SANTOSH	04	e
13	009387	2020032500093876	KAPSE VIJAYKUMAR BHARAT	04	e
14	012164	2020032500121646	WAGHMARE PRAJWAL DATTATRAY	03	c
15	012165	2020032500121654	GHODKE KUNAL MAHADEV	07	c
16	012944	2020032500129441	WANKHARE SANIKA NANASAHEB	07	e
17	013425	2020032500134256	BANDGAR TEJAS RAJESH	04	e
18	013431	2020032500134314	YEDKE PRUTHVIRAJ SIDDHU	04	c
19	013804	2020032500138045	JADHAV PRIYANKA KERABA	04	e
20	013805	2020032500138053	KOLI SUSHMA SHANKAR	04	e
21	013806	2020032500138061	MALI PRADNYA RAJENDRA	04	e
22	013807	2020032500138076	MANE AISHWARYA RANJEET	04	e
23	013809	2020032500138092	KALE ASMITA ANIL	07	07
24	013820	2020032500138207	KARANDE SRUSHTI GANESH	04	e
25	013821	2020032500138215	INGOLE DATTATRAY SHRIDHAR	04	0
26	013822	2020032500138223	SUTAR SARANG BHARAT	01	c
27	013823	2020032500138231	THITE SUJIT NAMDEV	04	0
28	013982	2020032500139822	GATE ANIKET BALASAHEB	02	0

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Date

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Paper Name: Botany-VII (19201401)

Theory CA (Max Mark: 10 Min Mark: 4)

Count of Student: 44

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29	013984	2020032500139845	JADHAV AKSHAY PARMESHWAR		
30	013986	2020032500139861	BEG SHAHRUKH SHAFIK	04	04
31	013987	2020032500139876	GATE SWAPNIL UMESH	04	04
32	014071	2020032500140713	HANGARKAR SMITA DATTATRAY	04	04
33	014664	2020032500146644	MANE PRADNYA PRAMOD	04	04
34	014667	2020032500146675	JAGTAP GODAVARI DATTATRAY	06	06
35	014669	2020032500146691	SAYYAD SULEMAN VILAYATAPASHA	04	04
36	014670	2020032500146702	BADGUDE RUTUJA SUNIL	03	03
37	014680	2020032500146806	SAYYAD SAMINA KHUDBUDDIN	06	06
38	014682	2020032500146822	SAYYAD SAMINA KHUDBUDDIN	04	04
39	014685	2020032500146853	MANE SWAPNALI SUHAS	02	02
40	015071	2020032500150715	BARBADE MRUNAL MAHADEO	10	10
41	015255	2020032500152552	CHAVAN DNYANESHWARI VISHNU	04	04
42	015256	2020032500152567	CHAVAN PARMESHWAR SHRIHARI	04	04
43	015258	2020032500152583	NAGANE PRATIKSHA BHANUDAS	05	05
44	017701	2020032500177012	KASHID SNEHAL SANJAY	06	06
			DHAVANE DNYANESHWARI RANGNATH	05	05

# Exam supervision 2022-2023

Supervision



**Punyashlok Ahilyadevi Holkar Solapur University**  
Dnyaneshwar Nagar, Kegaon, Solapur-Pune National Highway, Solapur-413255, Maharashtra (India)  
<https://su.digitaluniversity.ac/>

## Blank Mark List For

B.Sc(Hons)(with Credits) - Regular-CBCS Pattern 2019 - B.Sc.-II - Sem-III For Mar-2022

Paper Name: Botany-V (19201301) College : Hemuji Chandele College of B.C.S. (HCCB), Shelgoan, Shelgoan, Barshi, Solapur Pin: 413221

Sr. No.	Seat Number	PRN	Student Name	Theory CA	Count of Student: 11	
					Marks	Total
1	009387	2020032500093876	KAPSE VIJAYKUMAR BHARAT			
2	013425	2020032500134256	BANDGAR TEJAS RAJESH		05	05
3	013431	2020032500134314	YEDKE PRUTHVIRAJ SIDDHU		05	05
4	013820	2020032500138207	KARANDE SRUSHTI GANESH			
5	013821	2020032500138215	INGOLE DATTATRAY SHRIDHAR		06	06
6	013822	2020032500138223	SUTAR SARANG BHARAT		05	05
7	013823	2020032500138231	THITE SUJIT NAMDEV		05	05
8	013982	2020032500139822	GATE ANIKET BALASAHEB			
9	013986	2020032500139861	BEG SHAHRUKH SHAFIK		05	05
10	013987	2020032500139876	GATE SWARNIL UMESH		06	06
11	015255	2020032500152552	CHAVAN PARMESHWAR SHRIHARI		05	05

# Zoology

BSC.I Internal Exam - 2021-22

Page No.

Date

1	Divyarani shinde	- 09	09
2	Yogita shitole	- 05	04
3	Kapse Tejaswini	- 07	04
4	Awate Pranali	- 09	09
5	Mali Pratiksha	- 08	10
6	Attar Tamanna	- 06	06
7	Raut Ankita	- 06	07
8	Hagare Harshada	- 04	07
9	Sherkhane pranita	- 05	03
10	pise Ankita	- 03	03
11	Konade snehal	- 04	04
12	Kattar Rehuka	- 07	05
13	Jadhav Kirati	- 09	05
14	Dhotre Arati	- 05	02
15	Dige Rutuja	- 07	08
16	Jagtap pritam.	- 06	05
17	Sherkhane saraswathi	- 02	02
18	Devkar Rani	- 06	07
19	Devkar priyanka	- 05	03
20	Saktare sanket	- 02	03
21	Bhaxati sustant	- 02	02
22	Raddi Abhishek	- 00	02
23	Chavan shunkar	- 02	02
24	Gund Adesh	- 02	02
25	Chavan pankaj	- 04	02
26	Chavan Rohit	- 03	04
27	Chaudhari Ajay	- 03	02
28	Dhavale Rushikesh	- 02	00
29	Awate Sachin	- 04	04
30	Kamble sweponi	- 03	02

31	Zonabhe somnath	- 04	03
32	Gardd swaphil	- 03	03
33	Rajput prakash	- 00	00
34	Kamble sunil	- 01	01
35	Shembade omkar	- 00	03
36	siksat Amit	- 02	02
37	Chavan Ajay	- 02	02
38	Aglave omkar	- 02	03
39	Kamble vishal	- 01	03
40	siksat Rohrik	- 02	02
41	Awate suhag	- 03	03
42	Dhage vishnu	- 02	02
43	Nagtilak Ajay	- 00	01
44	Mohite Rajsinh	- 03	04
45	Awate samarth	- 01	03
46	Devlavi Aditya	- 02	02
47	Kapse Anjinkya	- 03	04
48	Gakande Rushikesh	- 02	02
49	Nikam Tushar	- 06	07
50	Gurav Aishwarya	- 05	03
51	Gate Shital	- 04	04

Internal marks.  
Botany - 1st year.

Page No.	
Date	

Sl. No.	Name	marks	
		Paper I	II
1)	Shinde Divyaranji Rajendra.	08	10
2)	Gurav Aishwarya Santosh.	08	04
3)	Katkar Renuka Ramling	07	07
4)	Mali pratiksha kumar	10	09
5)	Ankita Jeevan Raut.	08	05
6)	Kapase Tejashwini Sampat.	03	05
7)	Aware Pranali Maharudra.	09	09
8)	Jadhav Kiriti Shankar.	07	07
9)	Jaytap pritam Umesh.	08	08
10)	Kanade Snehal Arun.	04	04
11)	Pise Ankita Balasaheb	02	04
12)	Devkar Rani Angad.	08	08
13)	Hagare Harshada Hanumanant.	08	06
14)	Shitole Yagita Rajendra.	05	04
15)	Dhotre Arti Maruti	04	04
16)	Deokar priyanka Sudhir	05	05
17)	Sherkhane Pranita Pavan	05	04
18)	Dige Rutuja Balasaheb	08	06
19)	Shankar Ravsaheb Chavan	01	04
20)	Chavan Rohit Prakash.	06	08
21)	Dhawale Rushikesh Ramchandra.	03	04
22)	Gand Aadesh Sunil	02	04
23)	Londhe Somant Vilas	06	04
24)	Kamble Swapnil Vittal.	01	05
25)	Ajay Jitendra Chaudhari	04	02
26)	Gand Swapnil Dasbrath.	03	05
27)	Reddi Abhishek Chandrakant.	04	02
28)	Tushar Dadasaheb Nikam	07	06
29)	Chavan Parthaj Balu.	05	06
30)	Dhage Vishnu Arun	01	03
31)	Kapase Ajinkya Anil	03	03
32)	Rushikesh Kumbhakar Gulande	05	04



	Bohang-T	Bohang
33) Kamble Sunil Pandurang.	02	02
34) Shembade onkar sitaram	05	02
35) Tamanna Sharm Atar.	06	09
36) Rajput Rakash Shankar.	00	01
37) Bharati Sushant prafulla.	02	02
38) Aware Sachin kakaSaheb	03	05
39) Salunke vaibhav vikas.	05	05
40) Dalave Rohan sitaram	02	02
41) Agalave onkar Bharat.	05	02
42) Sirsat Amit Siddheshwar.	02	02
43) Chavan Aniket Sugriv.	03	01
44) Mohite Rajsinh Satish.	03	01
45) Sirsat Ranveer Dilip.	04	04
46) Aware Suhay Rambhari	05	05
47) Kambale vidhal Sanjay.	04	03
48) Chavan Ajay Balasaheb.	04	01
49) Dalavi Aditya vikas.	00	03
50) Aware Samarth Pandurang	04	04
51) Sakhare Sanket Kalyan.	02	01
52) Sherkhane Surswati Sunil.	05	04
53) Gote Shital Kaku.	04	04

# Plant Anatomy

BSc II Year

DATE

## Paper V - Botany

	Name	Mark
1]	Mane pradnya pramod	06
2]	Mane swapnali suhas	05
3]	Gawali priti Rajendra	09
4.	Waghmare Prajawal Dattatray	04
5	Gawali Priti Rajendra	09
6.	kashid shehal Sanjay	08
7	Sayyad Samina khodbuddin	05
8.	karande Srushti Ganesh *	08
9.	Nagne Pratiksha Bhanudas	10
10.	chvan Dnyaneshwari Vishnu	06
11.	koli Sushma Shankar	06
12.	Mali Prodnya Rajendra	07
13.	Bodhale Reshma Dhanmry	05
14.	kale Asmita Anil	09
15.	Wankhare Sanika Nanasaheb	06
16.	Navgude Sanjana Tukaram	10
17.	Powar Rutika shrimant	10
18.	Gate Swapnil Umesh ✓	00
19	Barbade Mrunal Mahadev	09
20.	Dalave Swapnil Santosh	05
21.	Ingole Shridhar Datt	
21	Dattatray Shridhar Ingole ✓	04
22.	Mane Apeksha Umakant	10
23.	Hangarkar Smita dattatray	09
24.	Badgude Rutuja Sunil	08
25	Takbhate Rutuja Vijay	08
26.	Jagtap Godavari Dattatry	08
27.	Tate Pratiksha Annasaheb	07

Student	Mark
28. Mali Mohini Vishnu	07
29. Kanode Vaishnavi Gurunath	07
30. Shaikh Farhana Maheeb ✓	07
31. Mali Priyanka Kumar	06
32. Mane Aishwarya Ranjeet	05
33. Jadhav Apeksha Ashok	05
34. Ghande Mayuri Santosh	05
35. Ghodke Kunal ✓	05
36. Jadhav Akshay Parmeshwar ✓	03
37. Mali Ranjit Narayan	02
38. Punekar Jay Santosh	02
39. Mali Saurabh Satish	01
40. Kapse Vijay Kumar Bharat	01
41. Kale Suroj Hari	01
42. Sajjad Suleman Vilayantpasha	01
43. Dalave Swapnil Netaji	01
44. Bhosle Aditja Vikas	01
45. Tantak Sachin Dhanaji	01
46. Patekar Saurabh Vishwas	01
46. Thite Sujit Namdev	00
47. Ghodake Prathamesh Rajabhau	00
48. Dhavale Saurabh Shrikant	00
49. Jadhav Priyanka Kerba	10
50. Dhavne Dnyaneshwari Rangnath	07

BSc III

DATE / /

Paper - VI

Name

Mark

1]	Chavan dnyaneshwari vishnu	07
2]	Garli priti rajendra	06 + 1 = 7
3]	Takbhate rutuja vijay	05
4]	Waghmare prajawal Dattatray	07
5]	Jagtap godavari Dattatray	04
6]	Bodhle reshma Dharmatray	05
7]	Hangarkar Smita Dattatray	07
8]	Jadhav priyanka kerba	09
9]	mane pradnya pramod	06
10]	Sayyad Smita khudbuddin	06
11]	Apeksha Asok Ashok Jadhav	06
12]	mali pradnya rajendra	08
13]	Nagane pratiksha Bhanudas	08
14]	Badgude rutuja Sunit	06
15]	mali priyanka kumar	07
16]	Kale Asmita Anil	09
17]	Navgude Sanjana Tukaram	09
18]	Ingole Dattatray Shridhar	04
19]	Gate Aniket Balasahab ✓	02
20]	mane Apeksha umakant	08
21]	Dalve Swapnil Santosh	07
22]	Jay Santosh punekar	05
23]	Jadhav Akshya permeshwar ✓	02
24]	pawar rutika Shrimant	07
25]	kande vaishnvi Gurunath	07
26]	mane Swapnali Suhas	06
27]	Kapse vijaykumar Bharat ✓	02
	Gate Swapnil umesh ✓	01

Name -

mark

- 1) Nikam Tushar Badaraka 07
- 2) Awarare Prapali Meharudra 08
- 3) Bharali Sushant Prafulla 04
- 4) Awarare Sahag Ramhari 05
- 5) Dalave Rohan Silaram 05
- 6) Chavara Rohil prakash 06
- 7) Chavara Shahkar Ravisahelb 05
- 8) Chavara Pankaj Balu 04
- 9) Awarare Samarth Pandurang 05
- 10) Atar Tamara Shara 07
- 11) Jagtap Prilam Umesh 09
- 12) Raut Ankita Jeevan 10
- 13) Arti Masuti Bholre 07
- 14) Sherkhane Pranita Pavan 06
- 15) Sherkhane Sarswati Sunil 06
- 16) Deoker Priyanka Sudhir 06
- 17) Shitole Yogith Rajendra 07
- 18) Dige Rutuja Balasabeb 09
- 19) Mali Pratiksha kumar 10
- 20) Hagare Harshada Hanumanth 09
- 21) Dhavale Rushikesh Ramchandra 04
- 22) Fadhav Kiriti Shankar 10
- 23) Kamble Swapnil Vilhel 08
- 24) Gealande Rushikesh Kamalakar 04
- 25) Chavara Aayy Balasabeb 04
- 26) Sakhare Samket Kalyan 04
- 27) Chavara Amiket Sujay 05
- 28) Sirsat Ranveer Dilip 04

Internal Exam - BSC - I

Name	Marks
1) Kirti Shankar Jadhav	09
2) Aware Pranali Maharudra	08
3) Swapnil Vitthal Kamble	05
4) Pankaj Balu Chavan	06
5) Gund Sat Santosh Popat	08
6) Tushar Dadarao Nikam	07
7) Shankar Ravsaheb Chavan	08
8) Dalve Rohan Sitaram	06
9) Rushikesh Kamalakar Galande	06
10) Bharti Sushant Praffula	07
11) Sanket Kalyan Sakhare	07
12) Rushikesh Ramchandra Davale	07
13) Aniket Sugriv Chavan	06
14) Amit Siddheshwar Sirsat	06
15) Ranveer Dilip Sirsat	07
16) Kapse Ajinkya Anil	06
17) Ajay Balasaheb Chavan	07
18) Tammana Sharn Atar	07
19) Yogita Rajendra Shitole	06
20) Harshada Hanumant Hagare	06
21) Arti Maruti Dhotre	06
22) Sherkhane Sarswati Sunil	05
23) Priyanka Sudhir Devokar	06
24) Sherkhane Pranita Pavan	04
25) Aware Suhag Ramhari	07
26) Samarth Pandurang Aware	07
27) Chavan Rohit Prakash	08
28) Ankita Jeevan Raut	09

- |                             |                    |
|-----------------------------|--------------------|
| 1] Kapase Tejaswini Sampat  | T. S. KAPASE       |
| 2] Jadhav Kirti Shankar     | K. S. Jadhav       |
| 3] Kalkar Renuka Ramling    | Kalkar R.R         |
| 4] Tamanna sharn Alav       | T. S. Alav         |
| 5] Rutuja Balasahed Dige    | R. B. Dige         |
| 6] Pise Ankita balasahed    | <u>Ankita Pise</u> |
| 7] Kanade snehal Arun       | <u>Snehal A.K</u>  |
| 8] Aware Pranali Mahagudra  | <del>Aware</del>   |
| 9] Mali pratiksha kumar     | P. K. Mali         |
| 10] Raut Ankita Jeevan      | A. J. Raut.        |
| 11] chavan Rohit prakash    | <u>R.R</u>         |
| 12] Kamble Swapnil Vitthal  | <u>Kamble: S.V</u> |
| 13] chavan AJAJ Balasahed   | <u>Chavan:</u>     |
| 14] Aware Gamalth Pandurang | <u>Aware</u>       |
| 15] Aware Subag Ramhari     |                    |
| 16] Mohite Raj Satish       | <del>Mohite</del>  |
| 17] Amit Siddheshwar Gosat  | <u>Amit</u>        |
| 18] Ghavan Pankaj Beke      | <u>PB Ghav</u>     |

Dindore

- 1) Jadhav S N.
- 2) ~~Dindore~~ Dindore <sup>p. madam</sup>
- 3) Ghodake sir
- 4) Gund madam
- 5) Urhade madam
- 6) Bikkad madam
- 7) Bachute madam.
- 8) Jadhav R P.

Block 3

	Block	Supervisor
1) 21-11-22	I	Jadhav S N sir
	II	Ghodake sir
	III	Urhade <del>madam</del> p.m.
22-11-22	I	Gund <sup>M.N.</sup> madam
	II	Bachute <sup>R.S</sup> madam
	III	Jadhav R P. sir
23-11-22	I	Bikkad madam
	II	Jadhav S N. sir <del>Dindore madam</del>
	III	Dindore madam
24-11-22	I	Ghodake sir
	II	Gund madam
	III	Bikkad madam
25-11-22	I	Bachute madam
	II	Urhade madam
	III	Dindore madam



**SOLAPUR UNIVERSITY, SOLAPUR.**  
**B.Sc. Part-I: Practical Examination in Botany (CBCS).**  
**March/April 2018.**

Centre: \_\_\_\_\_

Date: \_\_\_\_\_

Batch: \_\_\_\_\_

Total -70 Marks.

- N. B.** 1. Draw neat and labeled diagrams wherever necessary.  
 2. Do not write about points of theoretical information unless asked specifically.  
 3. Perform the experiment as per instructions given by the examiners.
- Q-1 Identify and show the important structures observed by you in the given specimen A, B, C and D. leave you preparation for inspection. 20 marks  
 (No Written answer)
- Q. 2. To demonstrate the activities an enzyme Catalase or Dehydrogenase – E. 7 marks  
 (No written answer)
- OR**
- Q. 2 To study the permeability of cell membrane from the given sample – E. 7 marks  
 (No written answer)
- Q. 3 Demonstrate the presence of carbohydrate by using any one biochemical test from the given sample F (Written answer) 6 marks
- Q.4 Prepare the root tip squash and show the different stages of mitosis observed in the specimen – G (No written answer) 7 marks
- Q. 5 **Identifications** 10 marks  
 H- Identify and comment upon the specimen  
 I - Identify and describe the slide/ specimen  
 J - Identify and describe the slide/ specimen  
 K - Identify and comment upon the plant disease  
 L - Identify and comment upon the plant disease
- Q. 6 a. Excursion report 10 marks  
 b. Journal 10 marks

## B.Sc -I Botany

- |     |                          |                        |
|-----|--------------------------|------------------------|
| 1)  | Dinjanani shinde         | D. R. shinde           |
| 2)  | Kirti Shankar Jadhav     | K. S. Jadhav           |
| 3)  | KAPASE TEJASWINI SAMPAT  | T. S. KAPASE           |
| 4)  | Tamann sharn Atar        | T. S. Atar             |
| 5)  | Aware Pranali Maharudra  | Aware P. T.            |
| 6)  | Raut Ankita Jeevan       | Raut A. T.             |
| 7)  | Mali pratiksha kumar     | Mali P. K.             |
| 8)  | Katkar Renuka Ramling    | Katkar R. R.           |
| 9)  | Nikam Tushar Deekshana   | <del>NIKAM</del>       |
| 10) | Kapase Ajinkya Anil      | Ajinkya                |
| 11) | Aware Suhag Ramhari      | Suhag                  |
| 12) | Mohite RAJ Satish        | Mohite                 |
| 13) | Aware saehin katra saheb | <del>Aware S. K.</del> |
| 14) | Jadhvi Aditya vikas      | Jadhvi                 |
| 15) | Chavan pankaj Balu       | Chavan                 |

Dt. 24/2/2022

B.Sc - I

Botany.

1]	Mali pratiksha kumar.	P. K. Mali.
2]	Jadhav Kirti Shankar	K. S. Jadhav.
3]	shinde Divyagani Rajendra.	D. R. Shinde.
4]	Katkar Renuka Ramling	Katkar R.R.
5]	Aatar Tamanna Sharn	T. S. Aatar
6]	Dige Rutuja Balasabeb	R. B. Dige.
7]	Kapase Tejaswini Sampat	T. S. KAPASE
8]	Sherkhane Parnita pavan.	P. P. Sherkhane
9]	sherkhane saraswati sunil	<del>Sherkhane</del>
10]	Harshada Hanumant Hagare	Harshada.H

1]	Aadesh Sunil Gund	<del>Gund</del>
2]	Ajinkya Anil Kapase	<del>Ajinkya</del>
3]	Nikam Tushar Dadasaheb	<del>Nikam</del>
4]	Raddi Abhishek Chandrakant	<del>Raddi</del>

# Botany

Date

- 1] Rutuja Balasaheb Dige.
- 2] Tamanna Sharn Atar
- 3] Katkar Renuka Ramling
- 4] Jadhav Kirti Shankar
- 5] Kapse Tajashwini Sampat
- 6] Shitole Yogita Rajendra
- 7] Shinde Divyanshi Rajendra
- 8] Joglekar Pritam Umesh
- 9] Shinde Divyanshi Rajendra
- 10] Raut Ankita Jeevan
- 11] Mali Pratiksha Kumar

R. B. Dige.  
T. S. Atar  
Katkar R.R.  
K. S. Jadhav.  
T. S. Kapse.  
~~Jeev~~  
U. R. Shinde  
P. V. Joglekar  
D. R. Shinde.  
A. J. Raut  
P. K. Mali.

- ① Chavan Pankaj Balu
- ② Chavan Shankar Kavsaheb
- ③ Chavan Rohit Prakash.
- 4] Nikam Tushar Dadasa
- 5] Awarde Suhag Ramhari
- 6] Awarde Samakth Pandurang
- 7] Mohite Raj Satish
- 8] Kapse Ajinkya Anil
- 9] Kamble Swapnil Vittal

~~P. Sharn~~  
~~Shitole~~  
P. R. R.  
~~Shitole~~  
~~Shitole~~  
~~Shitole~~  
Shitole  
Kumar S. V.

Batch:

PUNYASHLOK AHALYADEVJI HOLKAR

SOLAPUR UNIVERSITY, SOLAPUR

**B.Sc. Part- I: Practical Examination in Botany March/April 2023**

Centre: .....

Date: .....

Time: .....

Total Marks -80

- 
- N. B.**
1. Draw neat and labeled diagrams wherever necessary.
  2. Do not write about points of theoretical information unless asked specifically.
  3. Perform the experiment as per instructions given by the examiners.
- 

**Q. 1.** Identify and show the important structures observed by you in the given specimen- A, B and C leave your preparation for inspection. **24**

**Q. 2.** Determine Density/ Frequency of plant species of given quadrat. **08**

**Q. 3.** Set up the ecological experiment- D assigned to you and shows it to the examiner **08**

**OR**

**Q. 3.** Show the ecological adaptation in the given specimen- E. **08**

**Q. 4.** Assign the given specimen- 'F' to its respective plant family based on characters observed by you in it. Give important vegetative and floral characters. Draw floral diagram/ floral formula of it. **10**

**Q. 5.** Identifications **10**

1. Identify and describe the slide/ photograph- G (Viruses/ Gram staining/ Types of bacteria).
2. Identify and describe- H (Algae/ Fungi).
3. Identify and describe- I (Bryophyte/ Pteridophyte/ Gymnosperm).
4. Identify and describe- J (Vegetative character/ Reproductive character).
5. Identify and describe the specimen- K (Meteorological instrument).

**Q. 6.** a. Journal **10**

b. Excursion report. **10**

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# Solapur University, Solapur

B.Sc. Part – II Practical Examination, March / April 2018

## BOTANY PRACTICAL – I

Center:

Total Marks: 70

Date:

Time: 10.30 am onwards

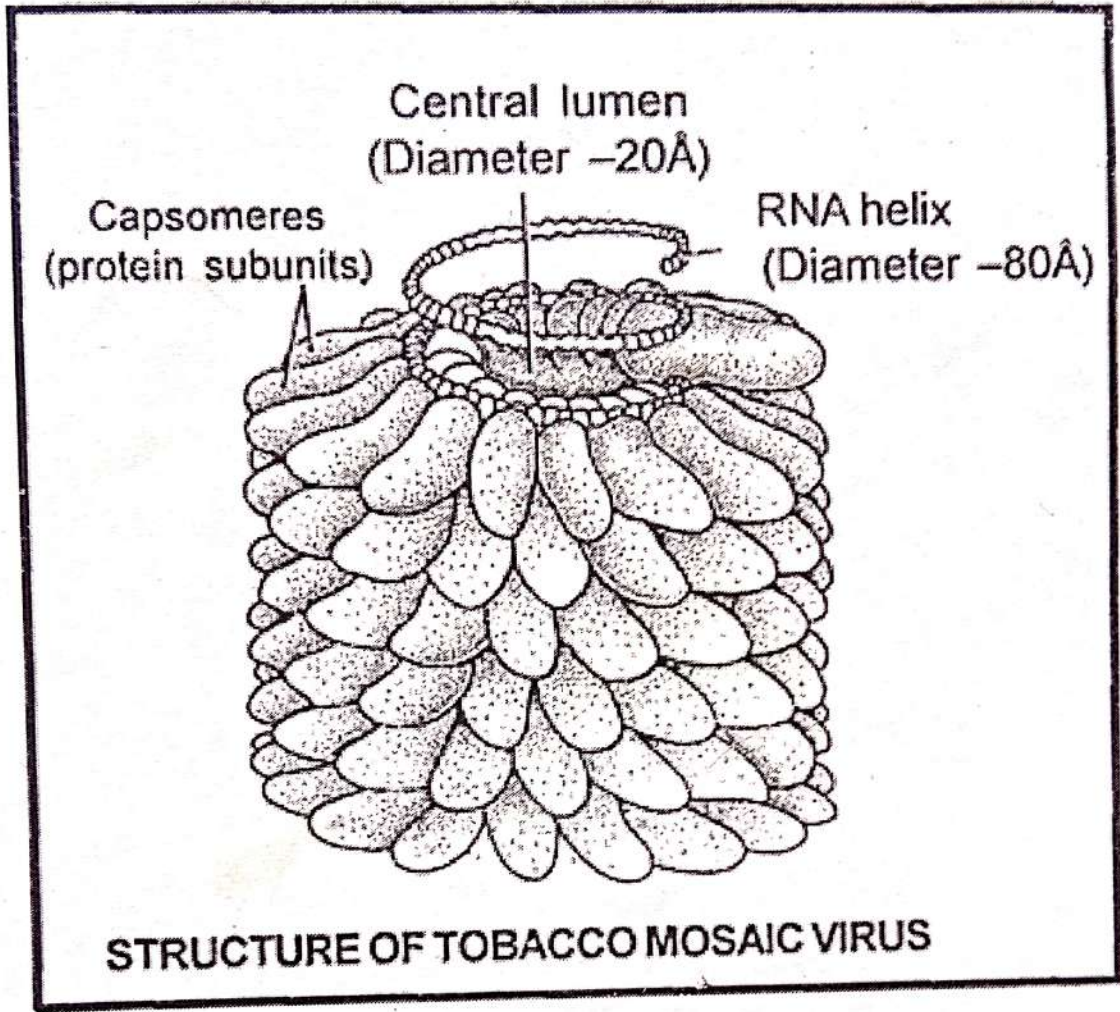
- N.B. :
1. Draw neat labeled sketches whenever necessary.
  2. Do not write about theoretical points, unless asked specifically.
  3. Record your observations carefully and neatly wherever asked.
  4. Figures to the right indicate full marks.

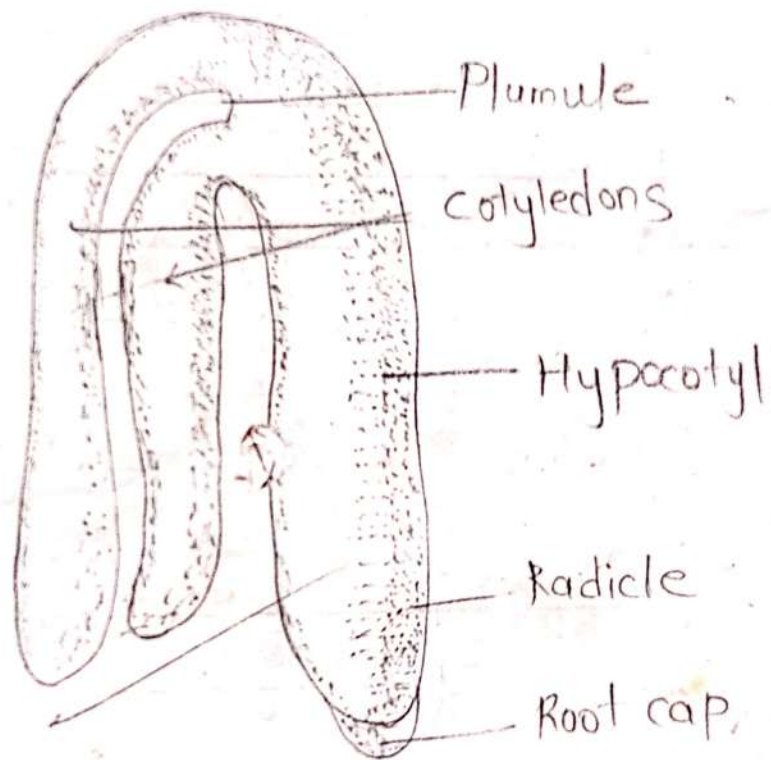
- 
- Q.1: Make a double stained permanent micro preparation of a T.S. of Specimen A and show it to the examiner (No written answer) 08
- Q.2: Macerate the given material 'B' and prepare the slide from it. Show the slide to the examiner (No written answer) 05
- Q-3: Assign the specimen 'C' to its respective family on the basis of characters observed by you in it. Give important vegetative and floral characters. Draw the floral diagram / write the floral formula of it. (Written answer) 08
- Q. 4: Prepare the list quadrat of a marked area and find out the percentage Frequency / Density of different species there in. (Written answer) 10
- Q-5: Setup the ecological experiment 'D' assigned to you & show it to the examiner (No written answer) 09

OR .

- Q.5. Show the ecological adaptations in the given specimen 'D' (No written answer) 09
- Q. 6 Identifications
- a) Identify and describe - (Angiosperm) 02
  - b) Identify and describe - (Anatomy) 02
  - c) Identify and describe- (Ecology) 02
  - d) Identify and comment - (Ecology) 02
  - e) Identify and comment. -(Ecology) 02
- Q. 7 a) Journal 10
- b) Excursion report. 10

cc66457157a3d/image-showing-Tobacco-mosaic-virus-TMV.webp





Dicotyledonous seed



**Hemuji chandelle collage, shelagaon (R)**

**Internal exam**

**Microbiology**

B.SC.1<sup>st</sup>(Paper 1<sup>st</sup>)

10Marks

Q.1 Rewrite the sentence by selecting correct alternative.

1. .... Disease caused by air.

- a) Typhoid b) Cholera c) Influenza d) All of above

2. In the soil microbiology study of .....

- a) Food b) Air c) Soil d) Water

3. .... It is branch of microbiology .

- a) Air b) water  
c) soil d) All of above

4. .... example of dairy microbiology.

- a) Milk b) soil  
c) Water d) Air

Q.2 Write the short note on any one question.

1) What is soil microbiology.

2) What is air microbiology.

Q.3 Long answer type questions, write any one

1) Beneficial activities of microorganism .

2) Harmful activities of microorganism.

# HEMUJI CHANDELE COLLEGE , SHEGAON[R]

## INTERNAL EXAM

B.Sc . I Year      Sub:- Computer Science Paper :-I Fundamental Of Computer      Marks:- 10

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### Q 1: MULTIPLE CHOICE QUESTION

4M.

1] Windows 98 is ..... user multitasking operating system.

- a] Single    b] multiuser    c] double    d] None of these

2] Operating system is .....

- a] Hardware    b] Program    c] Input Device    d] output device.

3] Formulas in excel Starts with.....

- a] /    b] =    c] --    d] F

4] In ..... operating system ,there is no direct communication between the computer and OS.

- a] Batch Operating System    b] Real time OS    c] Distributed OS    d] Network OS.

2M

### Q 2: A] Shorts Notes [Any one]

1] What is operating system and explain features of Operating system.

2] How we can add a new slide in PowerPoint.

4M

### B] Brief Answers.

1] What is word processor? Explain any four functions.

2] Explain Types of operating system.

Q1. MCQ

4M

- I. .... TYPES OF MUSCLES PRESENTS IN CHORDATES.
  - a) ONE
  - b) TWO
  - c) THREE
  - d) FOUR
- II. .... TYPE OF CIRCULATORY SYSTEM PRESENT IN PROTOCHORDATES.
  - a) OPEN
  - b) CLOSED
  - c) BOTH A & B
  - d) NONE OF THESE
- III. *AMPHIOXUS* IS EXAMPLES OF .....
  - a) CHORDATA
  - b) UROCHORDATA
  - c) CEPHALOCHORDATA
  - d) HEMICHORDATA
- IV. RESPIRATION OF CEPHALOCHORDATES THROUGH .....
  - a) GILLS
  - b) BODY SURFACE
  - c) NOSTRILS
  - d) LUNGS

Q2. SHORT ANSWER ( ANY 3 )

6M

1. DRAW THE CHART OF CHORDATES UP TO URO & CEPHALOCHORDATES.
2. DESCRIBE THE ECHINODERM ANCESTRY.
3. DESCRIBE THE ASCIDIAN THEORY.
4. GENERAL CHARECTERS OF PROTOCHORDATES.

# INTERNAL EXAM (B.Sc. I 2022-2023)

Hemuji chandele collage shelgong (R) (Mark10)

Subject -Botany paper II (Fungi & Archegoniate) Time-10.30 to11.15 pm

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**Q: 1 Multiple choice questions.**

**(4 Mark)**

**1) Saprophytic fungi.....**

- a) engulf their food in order to break it down
- b) secure their food from dead organic material
- c) Both (A) and (B)
- d) None of the above

**2) fungi that absence septa are called as .....**

- a) ahyphae
- b) coenocytic
- c) mycelium
- d) conidia

**3) ..... is composition of fungi cell wall.**

- a) cellulose b) chitin c) pectin and lipid d) polysaccharide

**4) Coenogametangia are formed in.....**

- a) mucor b) yeast c) puccinia d) penicillium

**Q:2 Short note. (any one)**

**(2 Mark)**

- 1) Economical importance of fungi ?
- 2) Asexual reproduction in mucor?

**Q:3 Long Answer. (any one)**

**(4 Mark)**

- 3) give an account of general characters of fungi ?
- 4) sexual reproduction of mucor?

## INTERNAL EXAM (B.Sc. I 2022-2023)

Hemuji chandele collage shelgong (R) (Mark10)

Subject -Botany paper V (plant anatomy) Time-9.30 to 10.15 pm

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**Q: 1 Multiple choice questions.**

**(4 Mark)**

**1) primary plant body develops due to the activity of .....**

- A)Lateral meristem
- B)cambium
- C)phellogen
- D)apical meristem

**2) tunica carpus theory was proposed by .....**

- a) hofmeister
- b) hanstein
- c) schmidt
- d) starsburger

**3) meristem tissue consist of .....cells**

- a) mature
- b)immature
- c)differentiated
- d)permant

**4) .....is a living mechanical tissue.**

- a) sclerenchyma
- b) xylum
- c)collenchyma
- d) parenchyma

**Q:2 Short note. (any one)**

**(2 Mark)**

- 1) paranchyma ?
- 2) primary meristem?

**Q:3 Long Answer. (any one)**

**(4 Mark)**

- 3) write characteristics of meristem ?
- 4) classify and comment on the meristem with respect to the position?

**Hemuji chandele collage shelgong (R) (Mark10)**

**Subject -Botany paper VI(plant metabolism) Time-11.30 to 12.15 pm**

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**Q: 1 Multiple choice questions.**

**(4 Mark)**

**1) Nearly .....of the earths atmosphere is composed of nitrogen.**

- A)80%
- B)78%
- C)45%
- D)21%

**2) ..... is a major part of the chlorophyll molecule.**

- a) Fe
- b) Mn
- c) N
- d) Ni

**3) which pigment is essential for nitrogen fixation by leguminous plant**

- a) phyococynin
- b) phycoerythrin
- c) leghemoglobin
- d) permant

**4) .....enzyme responsible for the reduction of molecular nitrogen in leguminous root nodule .**

- a) nitrate reductase
- b) nitrite reductase
- c) nitrogenase
- d) hexokin

**Q:2 Short note. (any one)**

**(2 Mark)**

- 1) Ammonification ?
- 2) nitrogen fixation ?

**Q:3 Long Answer. (any one)**

**(4 Mark)**

- 3) Explain in detail nitrogen cycle?
- 4) Mechanism of symbiotic biological nitrogen fixation?

Hemuji Chendele College Shelgaon R

Internal Exam B.sc 2. (Mark 10)

Q1) M.C.Q

- 1) The First transition elements is....  
a)Fe b)Cr. c)Sc d)Ni
  
- 2) Colour of d block element is due to .... transition  
a)d-d b)s-s. c)p-p d)s-P

Q2) Write any 2.

8M

- 1)Give name ,atomic symbol and electronic configuration of 3d series
- 2) Explain in detail General characteristics of 3d Block element
- 3) Explain in detail Electronic configuration of 4d series

Hemuji Chendele College Shelgaon R

Internal Exam B.sc 2. (Mark 10)

Q1) M.C.Q

- 1) The First transition elements is....  
a)Fe b)Cr. c)Sc d)Ni
  
- 2) Colour of d block element is due to .... transition  
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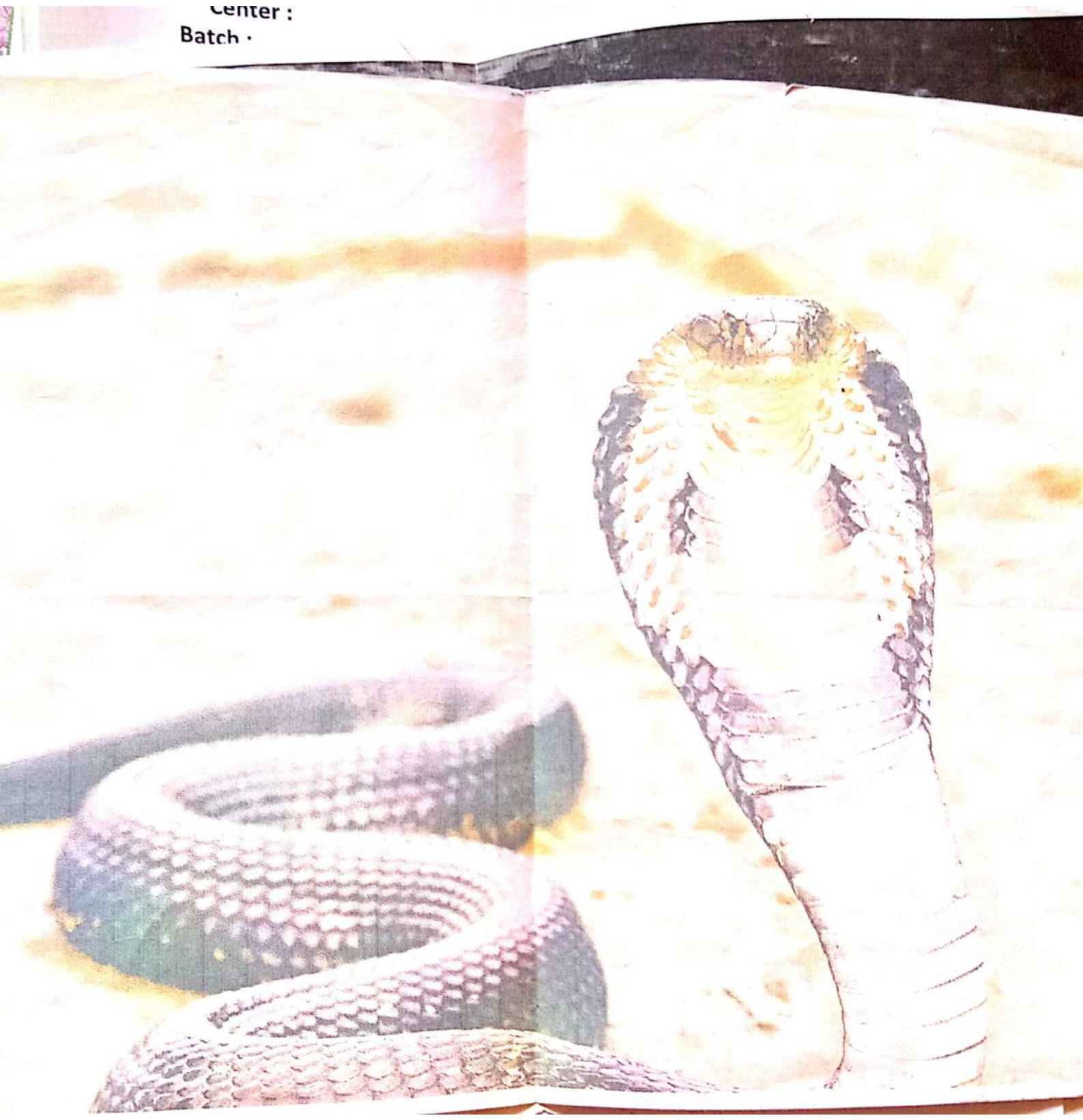
Q2) Write any 2.

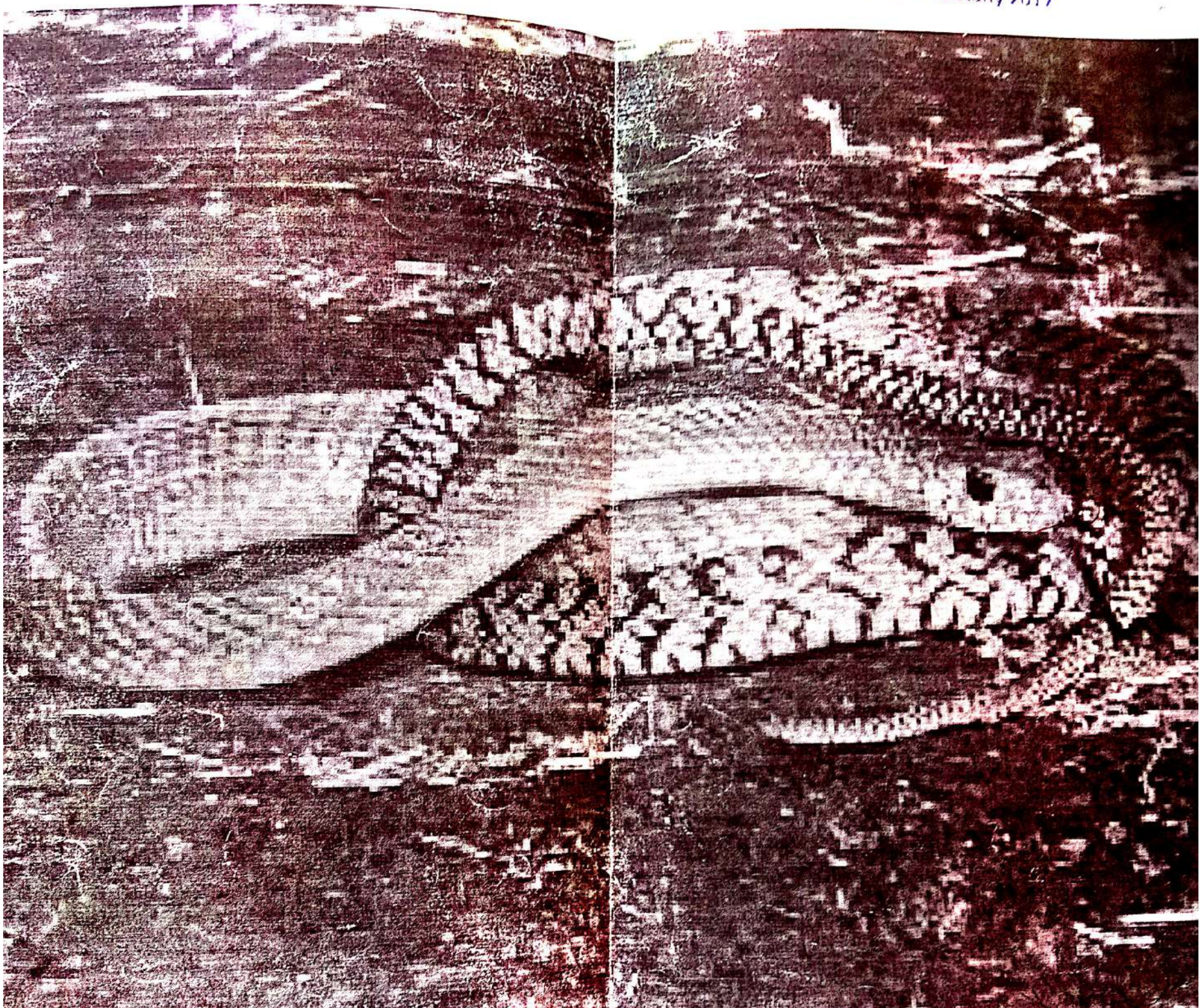
8M

- 1)Give name ,atomic symbol and electronic configuration of 3d series
- 2) Explain in detail General characteristics of 3d Block element
- 3) Explain in detail Electronic configuration of 4d series



Center :  
Batch :







// Education is a ladder to gather fruits of knowledge //

Tuljabhavani Mahila Mandal's

**Hemuji Chande College, Shelgaon (R),**

Tal. Barshi, Dist. Solapur (Maharashtra) 413222



## **ACADEMIC CALENDER- 2022-23**

### **August 2022**

<b>First week</b>	<b>Second week</b>	<b>Third week</b>	<b>Fourth week</b>	<b>Fifth week</b>
		Celebration of independence day	UG admission process	UG admission process

### **September 2022**

<b>First week</b>	<b>Second week</b>	<b>Third week</b>	<b>Fourth week</b>	<b>Fifth week</b>
UG admission process	Departmental meeting	Preparation of time table	Preparation of time table	



October 2022

First week	Second week	Third week	Fourth week	Fifth week
Organization of group discussion		Discipline committee meeting	Diwali holidays	Diwali holidays

November 2022

First week	Second week	Third week	Fourth week	Fifth week
HOD meeting	Criteria wise planning meeting	Poster presentation	Internal exams	Internal exams

December 2022

First week	Second week	Third week	Fourth week	Fifth week



Celebration of AIDS day	Subject wise test	<ul style="list-style-type: none"> <li>• Celebration of energy conservation day</li> </ul>	<ul style="list-style-type: none"> <li>• Celebration of mathematics day</li> <li>• Business Ideas Presentation Competition</li> </ul>	<ul style="list-style-type: none"> <li>• Celebration of Constitution day</li> </ul>
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**January 2023**

First week	Second week	Third week	Fourth week	Fifth week
Subject wise test	Celebration of Youth Day		Departmental meeting	

**February 2023**

First week	Second week	Third week	Fourth week	Fifth week
Organization of college level seminar	Organization of student welfare activities		University examinations	

**March 2023**

First week	Second week	Third week	Fourth week	Fifth week
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University examinations	University examinations	Term end staff meeting		
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**April 2023**

First week	Second week	Third week	Fourth week	Fifth week
Criteria wise meeting	<ul style="list-style-type: none"> <li>• Celebration of Mahatma Fule birth annivarssary</li> <li>• Celebration of Dr.Babasaheb Ambedkar Jayanti</li> </ul>	Preparation of Guest lecture	<ul style="list-style-type: none"> <li>• Celebration of World earth Day</li> <li>• Seminar on Human rights</li> <li>• Seminar on entrepreneursh ip</li> <li>• Seminar on future aspect</li> </ul>	

**May 2023**

First week	Second week	Third week	Fourth week	Fifth week



Analysis of result	Workshop on "Research methodology"	Practical examinations	Practical examinations	
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### June 2023

First week	Second week	Third week	Fourth week	Fifth week
College Holidays	College Holidays	College Holidays	University examinations	University examinations

### July 2023

First week	Second week	Third week	Fourth week	Fifth week
<ul style="list-style-type: none"> <li>University examination</li> </ul>	<ul style="list-style-type: none"> <li>University examinations</li> </ul>	<ul style="list-style-type: none"> <li>University examinations</li> </ul>	<ul style="list-style-type: none"> <li>University examinations</li> <li>Term end staff meeting</li> </ul>	



Hemuji Chandele College  
 Principal  
 Shelgaon(R) Tal-Barshi Dist-Solapur



# पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

केगाव, सोलापूर - ४१३ २५५, महाराष्ट्र (भारत)

दुरध्वनी क्र.०२१७-२७४४७७१/ ७२/ ७३/७४ (११ लाईन्स), फॅक्स : ०२१७-२३५१३००

संकेतस्थळ: <http://su.digitaluniversity.ac.in>, ई-मेल: [affiliation@sus.ac.in](mailto:affiliation@sus.ac.in)

शैक्षणिक, संशोधन आणि विकास (संलग्नता विभाग) विस्तारीत क्रमांक : १२२।



वाचा : विद्यापीठाचे परिपत्रक क्र.पुअहोसोविसो/संलग्नता/२०२२/४८४१, दिनांक २८/०६/२०२२.

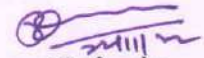
## सुधारित परिपत्रक

संदर्भीय परिपत्रकान्वये शैक्षणिक वर्ष २०२२-२३ साठी सत्र आरंभ व सत्र समाप्तीच्या तारखा कळविण्यात आलेल्या आहेत. त्यामध्ये खालीलप्रमाणे अंशतः बदल करून सुधारित तारखा खालील प्रमाणे आहेत. त्यानुसार पूढील कार्यवाही व्हावी.

अ.क्र.	विद्याशाखा	प्रथम सत्र		द्वितीय सत्र	
		प्रारंभ	समाप्ती	प्रारंभ	समाप्ती
१)	कला, वाणिज्य, विज्ञान, सामाजिकशास्त्रे, (पदवी व पदव्युत्तर संलग्नित महाविद्यालये व विद्यापीठ परिसरातील शैक्षणिक संकुले) एम.एस. डब्ल्यु. (पदवी व पदव्युत्तर संलग्नित महाविद्यालये)	०१ ऑगस्ट, २०२२	२६ नोव्हेंबर, २०२२	१० डिसेंबर, २०२२	३० एप्रिल, २०२३
२)	विधी व शिक्षणशास्त्र ( बी.एड., बी.पी.एड., एम.एड., एम.पी.एड., एम. ए. एज्युकेशन इत्यादी (पदवी व पदव्युत्तर संलग्नित महाविद्यालये)	१५ जुलै, २०२२	२६ नोव्हेंबर, २०२२	१० डिसेंबर, २०२२	३० एप्रिल, २०२३
३)	अभियांत्रिकी, तांत्रिक, आर्किटेक्चर, फार्मसी, व्यवस्थापन अभ्यासक्रम एम.बी.ए. इत्यादी (पदवी व पदव्युत्तर संलग्नित महाविद्यालये व विद्यापीठ परिसरातील संकुले)	०१ ऑगस्ट, २०२२	१५ डिसेंबर, २०२२	१५ जानेवारी, २०२३	३१ मे, २०२३

- सत्र आरंभ व सत्र समाप्तीच्या तारखांमध्ये महाविद्यालयास बदल करता येणार नाही.
- सत्र आरंभाच्या दिवशी महाविद्यालयास साप्ताहिक सुट्टी किंवा सार्वजनिक सुट्टी येत असल्यास त्याच्या दुसऱ्या दिवशी सत्र आरंभास सुरुवात करावी.
- सत्र समाप्तीच्या दिवशी महाविद्यालयास साप्ताहिक सुट्टी किंवा सार्वजनिक सुट्टी येत असल्यास त्याच्या अगोदरचा दिवस सत्र समाप्तीचा दिवस राहिल.
- तसेच वेळोवेळी महाराष्ट्र शासन, विद्यापीठ अनुदान आयोग व AICTE नवी दिल्ली यांचेकडून प्राप्त होणाऱ्या मार्गदर्शक तत्वानुसार आवश्यक ते बदल करण्यात येतील.

जा.क्र. : पुअहोसोविसो/संलग्नता/परिपत्रक/२०२२/ १०६३  
दिनांक : २३ NOV 2022

  
(योगिनी घारे)  
कुलसचिव

प्रति,

- १) मा. प्राचार्य/ संचालक, सर्व संलग्नित महाविद्यालये, पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर
- २) विभाग प्रमुख, सर्व प्रशासकिय विभाग व शैक्षणिक संकुले विद्यापीठ परिसर.

सदरचे परिपत्रक आपल्या महाविद्यालयातील सर्व शिक्षक व शिक्षकेतर कर्मचारी यांच्या निदर्शनास आणावे.





# पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

केगाव, सोलापूर - ४१३ २५५, महाराष्ट्र (भारत)

दुरध्वनी क्र.०२१७-२७४४७७१/ ७२/ ७३/७४ (११ लाईन्स), फॅक्स : ०२१७-२३५१३००

संकेतस्थळ: <http://su.digitaluniversity.ac.in>, ई-मेल [bcudaffiliation@sus.ac.in](mailto:bcudaffiliation@sus.ac.in)



[ शैक्षणिक, संशोधन आणि विकास (संलग्नता विभाग) विस्तारित क्रमांक : १२२ ]

जावक क्र.: पुअहोसोविसो/संलग्नता/२०१९/ ८७६०

दिनांक : 30 NOV 2021

वाचा : जा.क्र. पुअहोसोविसो/ संलग्नता/२०२१/५९३७, दि.१३/०८/२०२१ रोजीचे परिपत्रक

## सुधारित परिपत्रक (तात्काळ)

संदर्भिय परिपत्रकान्वये प्रस्तुत विद्यापीठाची सर्व संलग्नित महाविद्यालये, विद्यापीठ परिसरातील संकुलांना व प्रशासकिय विभागांना शैक्षणिक वर्ष २०२१-२२ या वर्षाच्या सत्र आरंभ व सत्र समाप्तीच्या तारखा कळविण्यात आले होते. परंतु कोविड - १९ बाबतचे निर्बंध शासनाने काही प्रमाणात शिथिल केल्याने व युजीसी व राज्यशासन(शिक्षण मंत्री) यांच्या सुचनेनुसार द्वितीय सत्राची सुरुवात ०१ जानेवारी २०२२ ऐवजी ०१ डिसेंबर, २०२१ पासून सुरु होत आहे. विद्यार्थ्यांचे हित विचारात घेता सदरील परिपत्रकातील द्वितीय सत्र आरंभच्या तारखेत खालीलप्रमाणे अंशतः बदल करण्यात आलेला आहे. कृपया त्यानुसार योग्य ती कार्यवाही व्हावी.

शैक्षणिक वर्ष २०२१-२२ साठी द्वितीय सत्र आरंभ व समाप्तीच्या सुधारित तारखा खालीलप्रमाणे आहेत.

अ. क्र.	विद्याशाखा	द्वितीय सत्र		द्वितीय सत्र आरंभ व समाप्तीची सुधारित तारीख	
		प्रारंभ	समाप्ती	प्रारंभ	समाप्ती
१.	कला, वाणिज्य, विज्ञान, सामाजिक शास्त्रे, (पदवी व पदव्युत्तर संलग्नित महाविद्यालये व विद्यापीठातील शैक्षणिक संकुले ) एम.एस.डब्ल्यु (पदवी व पदव्युत्तर संलग्नित महाविद्यालये)	१ जानेवारी, २०२२	३० एप्रिल, २०२२	०१ डिसेंबर, २०२१	३० एप्रिल, २०२२

टीप : सत्रारंभ व सत्रसमाप्तीच्या तारखांमध्ये महाविद्यालयास बदल करता येणार नाही.

- सत्रारंभाच्या दिवशी महाविद्यालयाची साप्ताहिक सुट्टी किंवा सार्वजनिक सुट्टी येत असल्यास त्याच्या दुस-या दिवशी सत्रारंभास सुरुवात करावी. सत्र समाप्तीच्या दिवशी महाविद्यालयाची साप्ताहिक सुट्टी किंवा सार्वजनिक सुट्टी येत असल्यास त्याच्या अगोदरचा दिवस सत्र समाप्तीचा दिवस राहिल.
- तसेच वेळोवेळी महाराष्ट्र शासन, विद्यापीठ अनुदान आयोग व AICTE नवी दिल्ली यांचेकडून प्राप्त होणाऱ्या मार्गदर्शक तत्वानुसार आवश्यक ते बदल करण्यात येतील.

(डॉ. एस.क. पवार)  
प्र. कुलसचिव

जा.क्र. : पुअहोसोविसो/संलग्नता/२०२१ -२२ / ८७६०

दिनांक : 30 NOV 2021

प्रति,

- १) मा. संस्थाचालक, प्राचार्य/ प्राचार्या, सर्व संलग्नित महाविद्यालये.
- २) मा. संचालक/अधिविभाग प्रमुख, सर्व शैक्षणिक संकुले, विद्यापीठ परिसर
- ३) विभाग प्रमुख, सर्व प्रशासकीय विभाग, प्रस्तुत विद्यापीठ.

सदरचे परिपत्रक आपल्या महाविद्यालयातील / संकुलातील सर्व शिक्षक व कर्मचारी यांचे निदर्शनास आणावे.



# पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

केगाव, सोलापूर - ४१३ २५५, महाराष्ट्र (भारत)

दुरध्वनी क्र.०२१७-२७४४७७१/७२/७३/७४ (११ लाईन्स), फॅक्स : ०२१७-२३५१३००

संकेतस्थळ: <http://su.digitaluniversity.ac.in>, ई-मेल: [affiliation@sus.ac.in](mailto:affiliation@sus.ac.in)

[शैक्षणिक, संशोधन आणि विकास (संलग्नता विभाग) विस्तारीत क्रमांक: १२२]



- वाचा : १) विद्यापीठाचे परिपत्रक क्र. पुअहोसोविसो/संलग्नता/२०२२/४४८१, दिनांक २८/०६/२०२२  
२) विद्यापीठाचे सुधारित परिपत्रक क्र. पुअहोसोविसो/संलग्नता/परिपत्रक/२०२२/१०६३, दिनांक २३/११/२०२२  
३) विद्यापीठाचे सुधारित परिपत्रक क्र. पुअहोसोविसो/संलग्नता/परिपत्रक/२०२३/२६९८, दिनांक २८/०४/२०२३

## सुधारित परिपत्रक

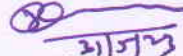
संदर्भीय परिपत्रकान्वये शैक्षणिक वर्ष २०२२-२३ साठी सत्र आरंभ व सत्र समाप्तीच्या तारखा कळविण्यात आलेल्या आहेत. त्यामध्ये खालीलप्रमाणे अशंत: बदल करून सुधारीत तारखा कळविण्यात येत आहेत. त्यानुसार पुढील कार्यवाही व्हावी.

अ.क्र.	विद्याशाखा	प्रथम सत्र		द्वितीय सत्र	
		प्रारंभ	समाप्ती	प्रारंभ	समाप्ती
१)	कला, वाणिज्य, विज्ञान, सामाजिकशास्त्रे, (पदवी व पदव्युत्तर संलग्नित महाविद्यालये व विद्यापीठ परिसरातील शैक्षणिक संकुले) एम.एस. डब्ल्यू. (पदवी व पदव्युत्तर संलग्नित महाविद्यालये)	०१ ऑगस्ट, २०२२	२६ नोव्हेंबर, २०२२	१० डिसेंबर, २०२२	३१ मे, २०२३
२)	विधी व शिक्षणशास्त्र ( बी.एड., बी.पी.एड., एम.एड., एम.पी.एड., एम. ए. एज्युकेशन इत्यादी (पदवी व पदव्युत्तर संलग्नित महाविद्यालये)	१५ जुलै, २०२२	२६ नोव्हेंबर, २०२२	१० डिसेंबर, २०२२	३१ मे, २०२३
३)	अभियांत्रिकी, तांत्रिक, आर्किटेक्चर, फार्मसी, व्यवस्थापन अभ्यासक्रम एम.बी.ए. इत्यादी. (पदवी व पदव्युत्तर संलग्नित महाविद्यालये व विद्यापीठ परिसरातील संकुले )	०१ ऑगस्ट, २०२२	१५ डिसेंबर, २०२२	०१ मार्च, २०२३	१५ जुलै, २०२३

- सत्र आरंभ व सत्र समाप्तीच्या तारखांमध्ये महाविद्यालयास बदल करता येणार नाही.
- सत्र समाप्तीच्या दिवशी महाविद्यालयास साप्ताहिक सुट्टी किंवा सार्वजनिक सुट्टी येत असल्यास त्याच्या अगोदरचा दिवस सत्र समाप्तीचा दिवस राहिल.
- महाराष्ट्र शासन, विद्यापीठ अनुदान आयोग व AICTE नवी दिल्ली यांचेकडून वेळोवेळी प्राप्त होणाऱ्या मार्गदर्शक तत्वानुसार आवश्यक ते बदल करण्यात येतील.

जा. क्र. : पुअहोसोविसो/संलग्नता/परिपत्रक/२०२३/ 3464

दिनांक : 31 MAY 2023

  
(योगिनी घारे)  
कुलसचिव

प्रति,

- १) मा. प्राचार्य/ संचालक, सर्व संलग्नित महाविद्यालये,  
पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर  
२) विभाग प्रमुख, सर्व प्रशासकिय विभाग व  
शैक्षणिक संकुले, विद्यापीठ परिसर.

सदरचे परिपत्रक आपल्या महाविद्यालयातील सर्व शिक्षक व शिक्षकेतर कर्मचारी यांच्या निदर्शनास आणावे.



## पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

केगाव, सोलापूर - ४१३ २५५, महाराष्ट्र (भारत)

दुरध्वनी क्र.०२१७-२७४४७७२/ ७२/ ७३/७४ (११ लाईन्स), फॅक्स : ०२१७-२३५१३००

संकेतस्थळ: <http://su.digitaluniversity.ac.in>, ई-मेल: [affiliation@sus.ac.in](mailto:affiliation@sus.ac.in)

शैक्षणिक, संशोधन आणि विकास (संलग्नता विभाग) विस्तारीत क्रमांक : १२२



वाचा : विद्यापीठाचे परिपत्रक क्र. पुअहोसोविसो/संलग्नता/परिपत्रक/२०२३/३३५८, दिनांक २३/०५/२०२३.

### सुधारित परिपत्रक


संदर्भाय परिपत्रकान्वये शैक्षणिक वर्ष २०२३-२४ साठी सत्र आरंभ व सत्र समाप्तीच्या तारखा कळविण्यात आलेल्या आहेत. त्यामध्ये खालीलप्रमाणे अशंत: बदल करुन सुधारीत तारखा कळविण्यात येत आहेत. त्यानुसार पुढील कार्यवाही व्हावी.

अ.क्र.	विद्याशाखा	प्रथम सत्र		द्वितीय सत्र	
		प्रारंभ	समाप्ती	प्रारंभ	समाप्ती
१)	कला, वाणिज्य, विज्ञान, सामाजिकशास्त्रे, (पदवी व पदव्युत्तर संलग्नित महाविद्यालये व विद्यापीठ परिसरातील शैक्षणिक संकुले) एम.एस. डब्ल्यु. ( पदवी व पदव्युत्तर संलग्नित महाविद्यालये)	१३ जुलै, २०२३	३० नोव्हेंबर, २०२३	१४ डिसेंबर, २०२३	३० एप्रिल, २०२४
२)	विधी व शिक्षणशास्त्र ( बी.एड., बी.पी.एड., एम.एड., एम.पी.एड., एम. ए. एज्युकेशन इत्यादी ( पदवी व पदव्युत्तर संलग्नित महाविद्यालये)	१३ जुलै, २०२३	३० नोव्हेंबर, २०२३	१४ डिसेंबर, २०२३	३० एप्रिल, २०२४
३)	अभियांत्रिकी, तांत्रिक, आर्किटेक्चर, फार्मसी, व्यवस्थापन अभ्यासक्रम एम.बी.ए. इत्यादी ( पदवी व पदव्युत्तर संलग्नित महाविद्यालये व विद्यापीठ परिसरातील संकुले )	०१ ऑगस्ट, २०२३	१५ डिसेंबर, २०२३	०१ जानेवारी, २०२४	३१ मे, २०२४

- सत्र आरंभ व सत्र समाप्तीच्या तारखांमध्ये महाविद्यालयास बदल करता येणार नाही.
- सत्र आरंभाच्या दिवशी महाविद्यालयास साप्ताहिक सुट्टी किंवा सार्वजनिक सुट्टी येत असल्यास त्याच्या दुसऱ्या दिवशी सत्र आरंभास सुरुवात करावी.
- सत्र समाप्तीच्या दिवशी महाविद्यालयास साप्ताहिक सुट्टी किंवा सार्वजनिक सुट्टी येत असल्यास त्याच्या अगोदरचा दिवस सत्र समाप्तीचा दिवस राहिल.
- महाराष्ट्र शासन, विद्यापीठ अनुदान आयोग व AICTE नवी दिल्ली यांचेकडून वेळोवेळी प्राप्त होणाऱ्या मार्गदर्शक तत्वानुसार आवश्यक ते बदल करण्यात येतील.

जा.क्र. : पुअहोसोविसो/संलग्नता/परिपत्रक/२०२३/ ३४६५

दिनांक : 31 MAY 2023

  
(योगिनी घारे)  
कुलसचिव

प्रति,

- १) मा. प्राचार्य/संचालक, सर्व संलग्नित महाविद्यालये, पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर
- २) विभाग प्रमुख, सर्व प्रशासकिय विभाग व शैक्षणिक

सदरचे परिपत्रक आपल्या महाविद्यालयातील/संकुलातील सर्व शिक्षक व शिक्षकेतर कर्मचारी यांच्या निदर्शनास आणावे.

EXAM MAR-2021



# PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR

## EXAM OF 2021 SEMESTER PATTERN EXAMINATION

### FINAL PROGRAM OF B.Sc. SEMESTER – III TO VI MARCH-2021 EXAMINATION TO BE HELD IN JULY- 2021

1. The examinations will be conducted for semesters III to VI.
2. The student will get one hour (1 hr) to solve the paper.
3. The theory examination will be conducted through online mode; which may be appeared/attempted from home/designated places.
4. The time slot given in the timetable shows 2 hrs for every day; however, the students will get 1 hr to solve each paper. If any student has to appear for two papers on the same day; in this case, he will solve two papers in 2 hours.

**B.Sc. Sem - III (New w.e.f. June 2020)**  
**(CBCS Pattern-2019)**

Day & Date	Sr. No	Subject Time: 10:00 a.m. to 12:00 p.m (Only 1 hr out of this slot)	Day & Date	Sr. No	Subject Time: 12:30 p.m. to 2:30 p.m (Only 1 hr out of this slot)
Friday 16/07/2021	101	CHEMISTRY Paper-V (19201305) Organic Chemistry	Friday 16/07/2021	102	COMPUTER SCIENCE Paper-V (19201307) Data Structure
Saturday 17/07/2021	103	CHEMISTRY Paper-VI (19201306) Inorganic Chemistry	Saturday 17/07/2021	104	COMPUTER SCIENCE Paper-VI (19201308) Design analysis and Algorithm
Sunday 18/07/2021	105	PHYSICS Paper-V (19201323) General Physics and Sound	Sunday 18/07/2021	106	BIO-CHEMISTRY Paper-I (19201303) Biomolecules
				107	PLANT PROTECTION Paper-I (19201325) Major crops and methods of integrated plant protection.
Monday 19/07/2021	108	PHYSICS Paper-VI (19201324) Electronics	Monday 19/07/2021	109	BIO-CHEMISTRY Paper-II (19201304) Biochemical Techniques
				110	PLANT PROTECTION Paper-II (19201326) Crop Diseases and their management
Thursday 22/07/2021	111	STATISTICS Paper-V (19201329) Probability Distributions - I	Thursday 22/07/2021	112	METEOROLOGY Paper-I (19201321) Climatology
				113	GEO-CHEMISTRY Paper-I (19201313) Introduction to Geochemistry
				114	ZOOLOGY Paper-V (19201331) Cell Biology
Friday 23/07/2021	116	STATISTICS Paper-VI (19201330) Statistical Methods	Friday 23/07/2021	115	METEOROLOGY Paper-II (19201322) General Meteorology
				116	GEO-CHEMISTRY Paper-II (19201314) Introduction to Solar System and Geo- Sphers
				117	ZOOLOGY Paper-VI (19201332) Principles of Ecology
Saturday 24/07/2021	118	MATHEMATICS Paper-V (19201319) Differential Calculus	Saturday 24/07/2021	119	BOTANY Paper-V (19201301) Plant Anatomy
Sunday 25/07/2021	120	MATHEMATICS Paper-VI (19201320) Laplace Transform	Sunday 25/07/2021	121	BOTANY Paper-VI (19201302) Plant metabolism
Monday 26/07/2021	122	ELECTRONICS Paper-V (19201309) Electronic Circuits	Monday 26/07/2021	123	PSYCHOLOGY Paper-V (19201327) Experimental Psychology
	124	GEOGRAPHY Paper-V (19201311) Climatology		125	GEOLOGY Paper-V (19201315) IGNEOUS PETROLOGY
				126	MICROBIOLOGY Paper-V (19201317) Bacterial Cytology and Physiology
Tuesday 27/07/2021	127	ELECTRONICS Paper-VI (19201310) Pulse & Switching Circuits	Tuesday 27/07/2021	128	PSYCHOLOGY Paper-VI (19201328) Social Psychology
	129	GEOGRAPHY Paper-VI (19201312) Geography of India		130	GEOLOGY Paper-VI (19201316) SEDIMENTARY AND METAMORPHIC PETROLOGY
				131	MICROBIOLOGY Paper-VI (19201318) Bacterial Genetics

**B.Sc. Sem - III (w.e.f. June 2017)**  
**(CBCS Pattern-2016) (Old up to March 2021)**

Day & Date	Sr. No	Subject Time: 10:00 a.m. to 12:00 p.m (Only 1 hr out of this slot)	Day & Date	Sr. No	Subject Time: 12:30 p.m. to 2:30 p.m (Only 1 hr out of this slot)
Friday 16/07/2021	101	CHEMISTRY Paper-V (201305) Organic Chemistry	Friday 16/07/2021	102	COMPUTER SCIENCE Paper-V (201317) Object Oriented Programming using C++
Saturday 17/07/2021	103	CHEMISTRY Paper-VI (201306) Inorganic Chemistry	Saturday 17/07/2021	104	COMPUTER SCIENCE Paper-VI (201318) Software Engineering
Sunday 18/07/2021	105	PHYSICS Paper-V (201303) General Physics, Heat and Sound	Sunday 18/07/2021	106	BIO-CHEMISTRY Paper-I (201331) Biomolecules
				107	PLANT PROTECTION Paper-I (201327) Major Crops and Methods of Integrated Plant protection
Monday 19/07/2021	108	PHYSICS Paper-VI (201304) Electronics	Monday 19/07/2021	109	BIO-CHEMISTRY Paper-II (201332) Biochemical Techniques
				110	PLANT PROTECTION Paper-II (201328) Crop Diseases and their management
Thursday 22/07/2021	111	STATISTICS Paper-V (201307) Continuous Probability Distributions	Thursday 22/07/2021	112	METEOROLOGY Paper-I (201323) Climatology
				113	GEO-CHEMISTRY Paper-I (201325) Introduction to Geochemistry
				114	ZOOLOGY Paper-V (201319) Animal Diversity – III
Friday 23/07/2021	116	STATISTICS Paper-VI (201308) Discrete Probability Distributions and Statistical Methods	Friday 23/07/2021	115	METEOROLOGY Paper-II (201324) General Meteorology
				116	GEO-CHEMISTRY Paper-II (201326) Introduction to Solar System and Geo-Sphers
				117	ZOOLOGY Paper-VI (201320) Cell Science, Genetics, Biological Chemistry and Economic Zoology
Saturday 24/07/2021	118	MATHEMATICS Paper-V (201313) Differential Calculus	Saturday 24/07/2021	119	BOTANY Paper-V (201301) Anatomy and Taxonomy of Angiosperms
Sunday 25/07/2021	120	MATHEMATICS Paper-VI (201314) Real Analysis	Sunday 25/07/2021	121	BOTANY Paper-VI (201302) Plant Ecology
Monday 26/07/2021	122	ELECTRONICS Paper-V (201315) Electronic Circuits	Monday 26/07/2021	123	PSYCHOLOGY Paper-V (201329) Experimental Psychology
	124	GEOGRAPHY Paper-V (201321) Biogeography - I		125	GEOLOGY Paper-V (201309) Optics and Mineralogy
				126	MICROBIOLOGY Paper-V (201311) Cytology and Physiology of Microorganisms
Tuesday 27/07/2021	127	ELECTRONICS Paper-VI (201316) Pulse & Switching Circuits	Tuesday 27/07/2021	128	PSYCHOLOGY Paper-VI (201330) Social Psychology
	129	GEOGRAPHY Paper-VI (201322) Soil Science		130	GEOLOGY Paper-VI (201310) Structural Geology
				131	MICROBIOLOGY Paper-VI (201312) Bacterial Genetics

<b>B.Sc. Sem – IV ( New w.e.f. Nov 2020)</b> <b>(CBCS Pattern-2019)</b>					
Day & Date	Sr. No	Subject Time: 3:00 p.m. to 5:00 p.m (Only 1 hr out of this slot)	Day & Date	Sr. No.	Subject Time: 3:00 p.m. to 5:00 p.m (Only 1 hr out of this slot)
Saturday 10/07/2021	132	CHEMISTRY Paper–VII (19201407) Physical Chemistry	Sunday 11/07/2021	133	COMPUTER SCIENCE Paper- VII (19201410) Software Engineering
Monday 12/07/2021	134	CHEMISTRY Paper–VIII (19201408) Analytical & Industrial Inorganic Chemistry	Tuesday 13/07/2021	135	COMPUTER SCIENCE Paper– VIII (19201411) Database Management System
Wednesday 14/07/2021	136	PHYSICS Paper-VII (19201434) Optics	Thursday 15/07/2021	137	BIO-CHEMISTRY Paper-III (19201404) NUTRITION AND METABOLISM
				138	PLANT PROTECTION Paper–VII (19201437) Introduction to weeds & non insect pests
Friday 16/07/2021	139	PHYSICS Paper-VIII (19201435) Modern Physics	Saturday 17/07/2021	140	BIO-CHEMISTRY Paper-IV (19201405) MOLECULAR BIOCHEMISTRY & DISEASES
				141	PLANT PROTECTION Paper–VIII (19201438) Insect pests and their Management.
Sunday 18/07/2021	142	STATISTICS Paper–VII (19201443) Probability Distributions - II	Monday 19/07/2021	143	METEOROLOGY Paper–III (19201431) Applied Climatology
				144	GEO-CHEMISTRY Paper-III (19201419) Principles of Geochemistry
				145	ZOOLOGY Paper–VII (19201446) Fundamentals of Biochemistry
Thursday 22/07/2021	146	STATISTICS Paper–VIII (19201444) Applied Statistics	Friday 23/07/2021	147	METEOROLOGY Paper–IV (19201432) Meteorological Instruments
				148	GEO-CHEMISTRY Paper-IV (19201420) Chemistry of the Earth
				149	ZOOLOGY Paper–VIII (19201447) ANIMAL PHYSIOLOGY: CONTROLLING AND COORDINATING SYSTEMS
Saturday 24/07/2021	150	MATHEMATICS Paper–VII (19201428) Differential Equations	Sunday 25/07/2021	151	BOTANY Paper–VII (19201401) Plant Physiology
Monday 26/07/2021	152	MATHEMATICS Paper–VIII (19201429) Abstract Algebra – I	Tuesday 27/07/2021	153	BOTANY Paper–VIII (19201402) EMBRYOLOGY OF ANGIOSPERMS
Wednesday 28/07/2021	154	GEOGRAPHY Paper–VII (19201416) Economic Geography	Thursday 29/07/2021	155	PSYCHOLOGY Paper–VII (19201440) Cognitive Psychology
	156	ELECTRONICS Paper–VII (19201413) Operational Amplifier and Applications		157	GEOLOGY Paper–VII (19201422) STRATIGRAPHY
				158	MICROBIOLOGY Paper–VII (19201425) Immunology & Medical Microbiology
Friday 30/07/2021	159	GEOGRAPHY Paper–VIII (19201417) Environmental Geography	Saturday 31/07/2021	160	PSYCHOLOGY Paper–VIII (19201441) Positive Psychology
	161	ELECTRONICS Paper–VIII (19201414) Digital Techniques and Microprocessor		162	GEOLOGY Paper–VIII (19201423) PALAEOLOGY
				163	MICROBIOLOGY Paper–VIII (19201426) Industrial Microbiology

<b>B.Sc. Sem-IV (New w.e.f. Nov 2021)</b> (CBCS Pattern-2019)			
<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>SUBJECT</b> <b>Time: 12:30 p.m. to 2:30 p.m</b> <b>(Only 1 hr out of this slot)</b>	
<b>Sunday</b> <b>08/08/2021</b>	425	<b>Environmental Studies (ENS)</b>	

<b>B.Sc. Sem-IV (w.e.f. Nov 2017)</b> (CBCS Pattern-2019) (Old up to OCT.2021)			
<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>SUBJECT</b> <b>Time: 12:30 p.m. to 2:30 p.m</b> <b>(Only 1 hr out of this slot)</b>	
<b>Sunday</b> <b>08/08/2021</b>	425	<b>Environmental Studies (2015)</b>	



<b>B.Sc. Sem – IV (w.e.f. Nov 2017)</b> <b>(CBCS Pattern-2016) (Old up to OCT.2021)</b>					
Day & Date	Sr. No	Subject Time: 3:00 p.m. to 5:00 p.m (Only 1 hr out of this slot)	Day & Date	Sr. No.	Subject Time: 3:00 p.m. to 5:00 p.m (Only 1 hr out of this slot)
Saturday 10/07/2021	132	CHEMISTRY Paper–VII(201407) Physical Chemistry	Sunday 11/07/2021	133	COMPUTER SCIENCE Paper- VII (201425) Data Structures
Monday 12/07/2021	134	CHEMISTRY Paper–VIII(201408) Analytical & Industrial Inorganic Chemistry	Tuesday 13/07/2021	135	COMPUTER SCIENCE Paper– VIII (201426) DBMS Using Oracle
Wednesday 14/07/2021	136	PHYSICS Paper-VII (201404) Optics	Thursday 15/07/2021	137	BIO-CHEMISTRY Paper-III (201446) Nutrition and Metabolism
				138	PLANT PROTECTION Paper–III (201440) Introduction to weeds & on insect Pests
Friday 16/07/2021	139	PHYSICS Paper-VIII (201405) Modern Physics	Saturday 17/07/2021	140	BIO-CHEMISTRY Paper-IV(201447) Molecular Biochemistry & Diseases
				141	PLANT PROTECTION Paper–IV (201441) Insect pests and their Management
Sunday 18/07/2021	142	STATISTICS Paper–VII (201410) Continuous Probability Distributions and Exact Sampling Distributions	Monday 19/07/2021	143	METEOROLOGY Paper–III (201434) Applied Climatology
				144	GEO-CHEMISTRY Paper-III (201437) Principles of Geochemistry
				145	ZOOLOGY Paper–VII (201428) Animal Diversity – IV
Thursday 22/07/2021	146	STATISTICS Paper–VIII(201411) Applied Statistics	Friday 23/07/2021	147	METEOROLOGY Paper–IV (201435) Meteorological Instruments
				148	GEO-CHEMISTRY Paper-IV (201438) Chemistry of the Earth
				149	ZOOLOGY Paper–VIII(201429) Histology & Physiology
Saturday 24/07/2021	150	MATHEMATICS Paper–VII(201419) Differential Equations	Sunday 25/07/2021	151	BOTANY Paper–VII (201401) Plant Physiology and Cytogenetics
Monday 26/07/2021	152	MATHEMATICS Paper–VIII(201420) Abstract Algebra – I	Tuesday 27/07/2021	153	BOTANY Paper–VIII (201402) Economic Botany
Wednesday 28/07/2021	154	GEOGRAPHY Paper–VII (201431) Biogeography – II	Thursday 29/07/2021	155	PSYCHOLOGY Paper–VII(201443) Cognitive Psychology
	156	ELECTRONICS Paper–VII (201422) Fundamentals of Operational Amplifier		157	GEOLOGY Paper–VII(201413) Igneous Petrology
				158	MICROBIOLOGY Paper–VII(201416) Immunology & Medical Microbiology
Friday 30/07/2021	159	GEOGRAPHY Paper–VIII (201432) Agricultural Geography	Saturday 31/07/2021	160	PSYCHOLOGY Paper–VIII(201444) Positive Psychology
	161	ELECTRONICS Paper–VIII (201423) Digital Techniques and Microprocessor		162	GEOLOGY Paper–VIII (201414) Sedimentary & Metamorphic Petrology
				163	MICROBIOLOGY Paper–VIII(201417) Industrial Microbiology-II

**B.Sc. Sem - V (w.e.f. June 2018)**  
**(CBCS Pattern-2016)**

<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 12:30 p.m. to 2:30 p.m</b> <b>(Only 1 hr out of this slot)</b>
<b>Saturday</b> <b>10/07/2021</b>	164	<b>English (Compulsory)</b> Literary Quest (201501)
		<b>Special Paper - IX</b>
<b>Sunday</b> <b>11/07/2021</b>	165	<b>Physics Paper- IX (201502)</b> Mathematical Physics & Statistical Physics
	166	<b>Chemistry Paper- IX (201506)</b> Physical Chemistry
	167	<b>Botany Paper- IX (201514)</b> Reproductive Biology of Angiosperms
	168	<b>Zoology Paper- IX (201518)</b> Non-chordates
	169	<b>Mathematics Paper- IX (201510)</b> Algebra-II
	170	<b>Statistics Paper- IX (201534)</b> Statistical Inference– I
	171	<b>Geology Paper- IX (201522)</b> Earth's Physics and Dynamics
	172	<b>Microbiology Paper- IX (201526)</b> Virology
	173	<b>Electronics Paper- IX (201530)</b> Linear Integrated Circuits and Applications
	174	<b>Computer Science Paper- IX (201538)</b> Visual Programming using C++
		<b>Special Paper – X</b>
<b>Monday</b> <b>12/07/2021</b>	175	<b>Physics Paper-X (201503)</b> Solid State Physics
	176	<b>Chemistry Paper- X (201507)</b> Inorganic Chemistry
	177	<b>Botany Paper- X (201515)</b> Genetics
	178	<b>Zoology Paper- X (201519)</b> Developmental Biology
	179	<b>Mathematics Paper- X (201511)</b> Complex Analysis
	180	<b>Statistics Paper- X (201535)</b> Probability Distributions
	181	<b>Geology Paper- X (201523)</b> Geomorphology
	182	<b>Microbiology Paper- X (201527)</b> Agricultural Microbiology
	183	<b>Electronics Paper- X (201531)</b> Fundamentals of Microcontroller
	184	<b>Computer Science Paper- X (201539)</b> Core Java

**B.Sc. Sem - V (w.e.f. June 2018) (Cont...)**  
**(CBCS Pattern-2016)**

<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 12:30 p.m. to 2:30 p.m</b> <b>(Only 1 hr out of this slot)</b>
		<b>Special Paper - XI</b>
<b>Tuesday</b> <b>13/07/2021</b>	185	<b>Physics Paper XI (201504)</b> Classical Mechanics
	186	<b>Chemistry Paper XI (201508)</b> Organic Chemistry
	187	<b>Botany Paper XI (201516)</b> Plant Physiology
	188	<b>Zoology Paper XI (201520)</b> Comparative Anatomy of Chordates
	189	<b>Mathematics Paper XI (201512)</b> Integral Calculus
	190	<b>Statistics Paper XI (201536)</b> Sampling Techniques
	191	<b>Geology Paper XI (201524)</b> Stratigraphy of India Part – I
	192	<b>Microbiology Paper XI (201528)</b> Immunology
	193	<b>Electronics Paper XI (201532)</b> Sensors and Transducers
	194	<b>Computer Science Paper XI (201540)</b> Operating System
		<b>Special Paper - XII</b>
<b>Wednesday</b> <b>14/07/2021</b>	195	<b>Physics Paper XII</b> Nuclear Physics (201505)
		OR
	196	Energy Studies (201542)
	197	<b>Chemistry Paper XII</b> Analytical and Industrial Physical Chemistry (201509)
		OR
	198	Methodology and Materials of Industrial Importance(201543)
		<b>Botany Paper XII</b>
199	Plant Breeding (201517)	
	OR	
200	Nursery and Gardening(201545)	

		<b>Zoology Paper XII</b>
201	Biostatistics, Bioinformatics, Medical Zoology and Evolutionary Biology(201521)	
		OR
202	Biodiversity & Conservation Biology(201546)	
		<b>Mathematics Paper XII</b>
203	Partial Differential Equations (201513)	
		OR
204	Mathematical Analysis (201544)	
		<b>Statistics Paper XII</b>
205	Operations Research(201537)	
		OR
206	Regression Analysis(201550)	
		<b>Geology Paper XII</b>
207	Applied Geology Part – I(201525)	
		OR
208	Crystallography and Optical Mineralogy(201547)	
		<b>Microbiology Paper XII</b>
209	Industrial Microbiology- I(201529)	
		OR
210	Industrial Microbiology- II(201548)	
		<b>Electronics Paper XII</b>
211	Biomedical Electronics (201533)	
		OR
212	Electronics Communication(201549)	
		<b>Computer Science Paper XII</b>
213	Python (201541)	
		OR
214	Software Testing (201551)	

<b><u>B.Sc. Sem – VI (w.e.f. Nov. 2018)</u></b> <b>(CBCS Pattern-2016)</b>		
Day & Date	Sr. No.	Subject <b>Time: 10:00 a.m. to 12:00 p.m</b> <b>(Only 1 hrs out of this slot).</b>
<b>Saturday</b> <b>10/07/2021</b>	215	English (Compulsory) (201601) <b>Literary Quest</b>
		<b>Special Paper-XIII</b>
<b>Sunday</b> <b>11/07/2021</b>	215	<b>Physics Paper-XIII (201602)</b> Electrodynamics
	217	<b>Chemistry Paper-XIII (201607)</b> Physical Chemistry
	218	<b>Botany Paper- XIII (201617)</b> Molecular Biology
	219	<b>Zoology Paper- XIII (201622)</b> Physiology
	220	<b>Mathematics Paper- XIII (201612)</b> Metric Spaces
	221	<b>Statistics Paper- XIII (201642)</b> Statistical Inference–II
	222	<b>Geology Paper- XIII (201627)</b> Economic Geology and Prospecting
	223	<b>Microbiology Paper- XIII (201632)</b> Microbial Genetics
	224	<b>Electronics Paper- XIII (201637)</b> Power Electronics
	225	<b>Computer Science Paper- XIII (201647)</b> Web Technology
		<b>Special Paper -XIV</b>
<b>Monday</b> <b>12/07/2021</b>	226	Physics Paper-XIV Materials Science (201603)
	227	Chemistry Paper- XIV Inorganic Chemistry (201608)
	228	Botany Paper- XIV <b>Plant Biotechnology (201618)</b>
	229	Zoology Paper- XIV Economic Zoology (201623)
	230	Mathematics Paper- XIV Numerical Analysis (201613)
	231	Statistics Paper- XIV Probability Theory (201643)
	232	Geology Paper- XIV Environmental Geology (201628)
	233	Microbiology Paper- XIV Microbial Biochemistry (201633)
	234	Electronics Paper- XIV <b>Embedded System Design (201638)</b>
	235	Computer Science Paper- XIV <b>Advanced Java (201648)</b>

<b>B.Sc. Sem – VI (w.e.f. Nov. 2018)</b> <b>(CBCS Pattern-2016)</b>		
Day & Date	Sr. No	Subject <b>Time: 10:00 a.m. to 12:00 p.m</b> <b>(Only 1 hr out of this slot).</b>
		<b>Special Paper XV</b>
<b>Tuesday</b> <b>13/07/2021</b>	236	<b>Physics Paper-XV (201604)</b> Atomic, Molecular Physics and Quantum Mechanics
	237	<b>Chemistry Paper- XV (201609)</b> Organic Chemistry
	238	<b>Botany Paper- XV (201619)</b> Plant Metabolism
	239	<b>Zoology Paper- XV (201624)</b> Molecular Biology and Biotechnology
	240	<b>Mathematics Paper- XV (201614)</b> Programming in C
	241	<b>Statistics Paper- XV (201644)</b> Designs of Experiments
	242	<b>Geology Paper- XV (201629)</b> Stratigraphy of India Part – II
	243	<b>Microbiology Paper- XV (201634)</b> Environmental Microbiology
	244	<b>Electronics Paper- XV (201639)</b> Electronics Instrumentation
	245	<b>Computer Science Paper- XV (201649)</b> Data Communication and Networking – II
		<b>Special Paper XVI</b>
<b>Wednesday</b> <b>14/07/2021</b>	246	<b>Physics Paper-XVI</b> Electronics (201605) OR
	247	Instrumentation (201652)
	248	<b>Chemistry Paper- XVI</b> Analytical and Industrial Organic Chemistry (201610) OR
	249	Applied Organic Chemistry (201653)
	250	<b>Botany Paper- XVI</b> Biostatistics (201620) OR
	251	Horticultural practices and post harvest technology (201655)
	252	<b>Zoology Paper- XVI</b> Endocrinology, Environmental Biology and Toxicology (201625) OR
	253	Techniques in Biology (201656)
	254	<b>Mathematics Paper- XVI</b> Integral Transform (201615) OR
	255	Graph Theory and Combinatorics (201654)

256	<b>Statistics Paper- XVI</b> Quality Management and Reliability (201645) OR
257	Time Series Analysis (201660)
258	<b>Geology Paper- XVI (201657)</b> Applied Geology Part – II OR
259	Geochemistry (201630)
260	<b>Microbiology Paper- XVI</b> Clinical Microbiology-I (201635) OR
261	Clinical Microbiology-II (201658)
262	<b>Electronics Paper- XVI</b> Modern Communication Systems (201640) OR
263	Virtual Instrumentation (201659)
264	<b>Computer Science Paper- XVI (201650)</b> Angular JS OR
265	Linux Operating System (201661)

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Ref No.: PAHSUS/EXAM/TIME-TABLE/2021/669

Date:22/06/2021

Sd/-

I/C Director

Board of Examinations and Evaluation



NAAC Accredited-2015  
'B' Grade (CGPA 2.62)

EXAM 2020-2021

# **PUNYASHLOK AHILYADEVJI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR**

**SPECIAL EXAM OF 2020-2021**

**FINAL PROGRAM OF B. Sc. SEMESTER – I TO II EXAMINATION TO BE HELD IN DEC-2021**

1. The examinations will be conducted for semesters I & II.
2. The student will get one hour (1 hr) to solve the paper.
3. The theory examination will be conducted through online mode; which may be appeared / attempted from home/designated places.
4. The time slot given in the timetable shows 2 hrs for every day; however, the students will get 1 hr to solve each paper. If any student has to appear for two papers on the same day; in this case, he will solve two papers in 2 hours.



**B.Sc. Sem – I (New w.e.f. June 2019)**  
**(CBCS Pattern-2019)**

Day & Date	Sr. No	Subject	Sr. No.	Subject
<b>Time : 10:00 am to 12:00 pm</b> <b>(Only 1 hr out of this slot)</b>				
<b>Monday</b> <b>13/12/2021</b>	1	<b>(w.e.f. June 2019)</b> English (Comp.) (19201101) Golden Petal		-----
		<b>(w.e.f. New June 2020)</b> English (Comp.) (20201101) LITERARY VOYAGE		
<b>Tuesday</b> <b>14/12/2021</b>	2	<b>CHEMISTRY Paper-I</b> Physical Chemistry (19201106)	3	<b>COMPUTER SCIENCE Paper-II</b> Programming Using C-I (19201121)
<b>Wednesday</b> <b>15/12/2021</b>	4	<b>CHEMISTRY Paper-II (19201107)</b> Inorganic Chemistry	5	<b>MICROBIOLOGY Paper-I</b> Fundamentals of Microbiology (19201114)
<b>Thursday</b> <b>16/12/2021</b>	6	<b>PHYSICS Paper-I</b> Mechanics and properties of matter. (19201104)	7	<b>ZOOLOGY Paper-I</b> Animal Diversity I (19201122)
<b>Friday</b> <b>17/12/2021</b>	8	<b>PHYSICS Paper-II</b> <b>Optics and Laser (19201105)</b>	9	<b>ZOOLOGY Paper-II</b> Animal diversity-II (19201123)
<b>Saturday</b> <b>18/12/2021</b>	10	<b>STATISTICS Paper-I</b> Descriptive Statistics-I (19201108)	11	<b>BOTANY Paper-I (19201102)</b> Microbiology and Psychology
<b>Sunday</b> <b>19/12/2021</b>	12	<b>MATHEMATICS Paper-I</b> Algebra (19201116)	13	<b>BOTANY Paper-II (19201103)</b> Fungi and Archegoniate
<b>Monday</b> <b>20/12/2021</b>	14	<b>MATHEMATICS Paper-II</b> Calculus (19201117)	15	

<b>B.Sc. Sem – II (New w.e.f. June 2019)</b> <b>(CBCS Pattern-2019)</b>				
Day & Date	Sr. No	Subject	Sr. No.	Subject
<b>Time : 12:30 pm to 2:30 pm</b> <b>(Only 1 hr out of this slot)</b>			<b>Time : 3:00 pm to 5:00 pm</b> <b>(Only 1 hr out of this slot)</b>	
<b>Monday</b> <b>13/12/2021</b>	---	----	51	<b>English (Comp.) (19201201)</b> Golden Petal <b>(w.e.f. New Nov. 2020)</b> <b>English (Comp.) (20201201)</b> LITERARY VOYAGE
<b>Tuesday</b> <b>14/12/2021</b>	52	<b>CHEMISTRY Paper–III (19201208)</b> Organic Chemistry	53	<b>COMPUTER SCIENCE Paper–IV (19201230)</b> Programming Using C - II
<b>Wednesday</b> <b>15/12/2021</b>	54	<b>CHEMISTRY Paper–IV (19201209)</b> Analytical Chemistry	55	<b>ZOOLOGY Paper–III (19201232)</b> Comparative Anatomy of vertebrates
<b>Thursday</b> <b>16/12/2021</b>	56	<b>PHYSICS Paper-III (19201205)</b> Heat and Thermodynamics	57	<b>ZOOLOGY Paper–IV (19201233)</b> Developmental Biology of vertebrates
<b>Friday</b> <b>17/12/2021</b>	58	<b>PHYSICS Paper-IV (19201206)</b> Electricity, Magnetism and Basic Electronics	59	<b>BOTANY Paper–III (19201202)</b> Plant Ecology
<b>Saturday</b> <b>18/12/2021</b>	60	<b>STATISTICS Paper–III (19201211)</b> Descriptive Statistics-II	61	<b>BOTANY Paper–IV (19201203)</b> Taxonomy of Angiosperms
<b>Sunday</b> <b>19/12/2021</b>	62	<b>STATISTICS Paper–IV (19201212)</b> Probability and Probability Distributions-II	63	<b>MATHEMATICS Paper–III (19201223)</b> Geometry
<b>Monday</b> <b>20/12/2021</b>	64	<b>ELECTRONICS Paper–IV (19201227)</b> Digital Electronics	65	<b>MATHEMATICS Paper-IV (19201224)</b> Differential Equations

<b>B.Sc. Sem-II New (First Year) (w.e.f. June 2019)</b>			
Day & Date	Sr. No.	SUBJECT	
<b>Time : 10:00 am to 12:00 pm</b> <b>(Only 1 hr out of this slot)</b>			
<b>Monday</b> <b>20/12/2021</b>	423	<b>Democracy, Elections and Good Governance (19DEG)</b>	

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Ref No.: PAHSUS/EXAM/TIME-TABLE/2021/1531

Date: 08/12/2021

Sd/-

Director

Board of Examinations and Evaluation

Hemuji Chandele College ,Shelgaon R  
Time table of internal Exam  
B.Sc. Semester-I 2022-23

B.Sc.-I

Date	Subject	Time
28-10-2023	Chemistry -I	9:30 to 11.00
	Chemistry -II	12.00 to 1.30
30-10-2023	Zoology-I/Maths-I	9:30 to 11.00
	Zoology-II/Maths-II	12.00 to 1.30
31-10-2023	Physics-I/Botany-I	9:30 to 11.00
	Physics-II/Botany-II	12.00 to 1.30
1-11-2023	Micro-I/comp Sci-I	9:30 to 11.00
	Micro-II/comp Sci-II	12.00 to 1.30
2-11-2023	English	9.30 to 11.00

B.Sc.-II

Date	Subject	Time
28-10-2023	Chemistry-V	9:30 to 11.00
	Chemistry-VI	12.00 to 1.30
30-10-2023	Zoology- V/Maths- V	9:30 to 11.00
	Zoology-VI/Maths-VI	12.00 to 1.30
31-10-2023	Physics-V/Botany-V	9:30 to 11.00
	Physics-VI/Botany-VI	12.00 to 1.30
1-11-2023	Micro-V/Comp Sci-V	9:30 to 11.00
	Micro-VI/Comp Sci -VI	12.00 to 1.30

B.Sc-III(Micro/Chemistry/Comp.Sci)

Date	Subject	Time
28-10-2023	Chemistry/micro/comp sci-IX	9:30 to 11.00
	Chemistry/micro/comp sci-X	12.00 to 1.30
30-10-2023	Chemistry/micro/comp sci-XI	9:30 to 11.00
	Chemistry/micro/comp sci-XII	12.00to 1.30
31-10-2023	Chemistry/micro/comp sci-XIII	9:30 to 11.00
1-11-2023	English	12.00 to 1.00



## B.Sc.-II Botany practical

Sr.No.	Student Name	Seat.No.	Signature
1	KOLI MAHESH LAXMAN	813690	Mahesh
2	KURUND ANAND LALASAHEB	813691	Kurund A.L
3	SHELKE NILESH PRAKASH	813693	Shelke N.P
4	DESHMUKH PRIYANKA APPASAHEB	813694	Deshmukh
5	DOIPHODE PRAJAKATA DIPAK	813695	Prajakta
6	INGALE POONAM RAJENDRA	813696	Jingale
7	KHUNE PRATIKSHA SHIVAJI	813697	Pratiksha
8	KHUNE SWAPNIL SHIVAJI	813698	Swapnil
9	KURHADE PRIYANKA KUMAR	813699	Purkshade
10	MALI ANJALI JANARDHAN	813700	Anjali
11	MANE PRATIKSHA PADMAKAR	813701	Pratiksha
12	PATIL AMIT SUNIL	813702	Amit
13	SHELKE URMILA NANA	813703	Shelake
14	ATAR NEHA CHHAND	813704	Atar N.c.
15	AWARE SWAPNJA MILIND	813705	Awaresm
16	DEVKAR AARTI HARIBA	813706	devkar A.H
17	GAIKWAD MOHINI VISHNU	813707	Gaikwad
18	KALE MONALI ANIL	813708	Kale
19	SAYYAD SANIYA VILAYATPASHA	813709	Sayyad S.V
20	ZUNJARE SHITAL SHIVAJI	813711	Zunjare S.S
21	SOLANKAR PUNAM POPAT	815836	Punam
22	PATIL RUTUJA SAYAJIRAO	815837	Patil
23	MOTE GANESH MALHARI	815896	Motegem

## B.Sc.-II Botany practical

Sr.No.	Student Name	Seat.No.	Signature
1	KOLI MAHESH LAXMAN	813690	
2	KURUND ANAND LALASAHEB	813691	
3	SHELKE NILESH PRAKASH	813693	
4	DESHMUKH PRIYANKA APPASAHEB	813694	
5	DOIPHODE PRAJAKATA DIPAK	813695	
6	INGALE POONAM RAJENDRA	813696	
7	KHUNE PRATIKSHA SHIVAJI	813697	
8	KHUNE SWAPNIL SHIVAJI	813698	
9	KURHADE PRIYANKA KUMAR	813699	
10	MALI ANJALI JANARDHAN	813700	
11	MANE PRATIKSHA PADMAKAR	813701	
12	PATIL AMIT SUNIL	813702	
13	SHELKE URMILA NANA	813703	
14	ATAR NEHA CHHAND	813704	
15	AWARE SWAPNJA MILIND	813705	
16	DEVKAR AARTI HARIBA	813706	
17	GAIKWAD MOHINI VISHNU	813707	
18	KALE MONALI ANIL	813708	
19	SAYYAD SANIYA VILAYATPASHA	813709	
20	ZUNJARE SHITAL SHIVAJI	813711	
21	SOLANKAR PUNAM POPAT	815836	
22	PATIL RUTUJA SAYAJIRAO	815837	
23	MOTE GANESH MALHARI	815896	

## Solapur University, Solapur.

B.Sc. Part – II Practical Examination, March / April 2019

### BOTANY PRACTICAL – II

Center:

Total Marks: 70

Date:

Time: 10.30 am onwards

- N.B. :
1. Draw neat labeled sketches whenever necessary.
  2. Do not write about theoretical points, unless asked specifically.
  3. Record your observations carefully and neatly wherever asked.
  4. Figures to the right indicate full marks.
- 

- Q. 1) Setup the physiological experiment assigned to you and record your observations, submit the report to the examiner (written answer) 09
- Q. 2) Arrange the physiological experiment assigned to you and show it to the examiner (No written answer) 06
- Q.3) Solve the genetic problem based on linkage and crossing over. 08  
(Written answer)
- Q.4) Identify, give the botanical name, source and economic importance of the specimen 'A' 07
- Q.5) Identify, give the botanical name and uses of specimen 'B' And 'C' 10
- Q. 6) Identifications:
- a) Identify and comment – (Cytogenetic) 02
  - b) Identify and comment – (Economic botany) 02
  - c) Identify and comment – ( Economic botany) 02
  - d) Identify and comment -( Economic botany) 02
  - e) Identify and comment- (Economic botany) 02
- Q. 7. a) Journal 10
- b) Horticultural term paper 10

**Solapur University, Solapur**  
**B.Sc. Part - II Practical Examination, March / April 2019**  
**BOTANY PRACTICAL - I**

Center:

Total Marks: 70

Date:

Time: 10.30 am onwards

- N.B. :
1. Draw neat labeled sketches whenever necessary.
  2. Do not write about theoretical points, unless asked specifically.
  3. Record your observations carefully and neatly wherever asked.
  4. Figures to the right indicate full marks.
- 

- Q.1: Make a double stained permanent micro preparation of a T.S. of Specimen A and show it to the examiner (No written answer) 08
- Q.2: Macerate the given material 'B' and prepare the slide from it. Show the slide to the examiner (No written answer) 05
- Q-3: Assign the specimen 'C' to its respective family on the basis of characters observed by you in it. Give important vegetative and floral characters. Draw the floral diagram / write the floral formula of it. (Written answer) 08
- Q. 4: Prepare the list quadrat of a marked area and find out the percentage Frequency / Density of different species there in. (Written answer) 10
- Q-5: Setup the ecological experiment 'D' assigned to you & show it to the examiner (No written answer) 09

OR .

- Q.5. Show the ecological adaptations in the given specimen 'D' (No written answer) 09
- Q. 6 Identifications
- a) Identify and describe - (Angiosperm) 02
  - b) Identify and describe - (Anatomy) 02
  - c) Identify and describe- (Ecology) 02
  - d) Identify and comment - (Ecology) 02
  - e) Identify and comment. -(Ecology) 02
- Q. 7 a) Journal 10
- b) Excursion report. 10





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Dnyanteerth Nagar, Kegaon, Solapur-Pune National Highway, Solapur- 413255, Maharashtra (India)  
<http://su.digitaluniversity.ac/>

**Blank Mark List For**  
**B.Sc.(with Credits) - Regular-Choice Based Credit System - B.Sc.-II - Sem-IV For Mar-2019**  
College : Hemu Chande College of B.C.S. (HCCB), Shelaoan, Shelaoan, Barshi, Solapur Pin: 413221

Paper Name: <b>Botany Practical (201403)</b>	<b>Practical UA</b> (Max Mark: 140 Min Mark: 56)	<b>Count of Student: 23</b>
----------------------------------------------	-----------------------------------------------------	-----------------------------

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
1	813690	2016032500157602	KOLI MAHESH LAXMAN		
2	813691	2017032500025867	KURUND ANAND LALASAHEB		
3	813693	2017032500223101	SHELKE NILESH PRAKASH		
4	813694	2017032500230132	DESHMUKH PRIYANKA APPASAHEB		
5	813695	2017032500232081	DOIPHODE PRAJAKATA DIPAK		
6	813696	2017032500025786	INGALE POONAM RAJENDRA		
7	813697	2017032500228044	KHUNE PRATIKSHA SHIVAJI		
8	813698	2017032500227911	KHUNE SWAPNIL SHIVAJI		
9	813699	2017032500025755	KURHADE PRIYANKA KUMAR		
10	813700	2017032500025794	MALI ANJALI JANARDHAN		
11	813701	2017032500025956	MANE PRATIKSHA PADMAKAR		
12	813702	2017032500230124	PATIL AMIT SUNIL		
13	813703	2017032500026035	SHELKE URMILA NANA		
14	813704	2017032500025724	ATAR NEHA CHHAND		
15	813705	2017032500025585	AWARE SWAPNJA MILIND		
16	813706	2017032500025674	DEVKAR AARTI HARIBA		
17	813707	2017032500025604	GAIKWAD MOHINI VISHNU		
18	813708	2017032500223155	KALE MONALI ANIL		
19	813709	2017032500025763	SAYYAD SANIYA VILAYATPASHA		
20	813711	2016032500199142	ZUNJARE SHITAL SHIVAJI		
21	815836	2017032500064544	SOLANKAR PUNAM POPAT		
22	815837	2017032500060016	PATIL RUTUJA SAYAJIRAO		
23	815896	2016032500156684	MOTE GANESH MALHARI		

# Solapur University, Solapur

B.Sc. Part - II Practical Examination, March / April 2019

## BOTANY PRACTICAL - I

Center:

Total Marks: 70

Date:

Time: 10.30 am onwards

- N.B. :
1. Draw neat labeled sketches whenever necessary.
  2. Do not write about theoretical points, unless asked specifically.
  3. Record your observations carefully and neatly wherever asked.
  4. Figures to the right indicate full marks.

- Q.1: Make a double stained permanent micro preparation of a T.S. of Specimen A and show it to the examiner (No written answer) 08
- Q.2: Macerate the given material 'B' and prepare the slide from it. Show the slide to the examiner (No written answer) 05
- Q-3: Assign the specimen 'C' to its respective family on the basis of characters observed by you in it. Give important vegetative and floral characters. Draw the floral diagram / write the floral formula of it. (Written answer) 08
- Q. 4: Prepare the list quadrat of a marked area and find out the percentage Frequency / Density of different species there in. (Written answer) 10
- Q-5: Setup the ecological experiment 'D' assigned to you & show it to the examiner (No written answer) 09

OR .

- Q.5. Show the ecological adaptations in the given specimen 'D' (No written answer) 09
- Q. 6 Identifications 02
- a) Identify and describe - (Angiosperm) 02
  - b) Identify and describe - (Anatomy) 02
  - c) Identify and describe- (Ecology) 02
  - d) Identify and comment - (Ecology) 02
  - e) Identify and comment. -(Ecology) 10
- Q. 7 a) Journal 10
- b) Excursion report.

# Solapur University, Solapur

B.Sc. Part – II Practical Examination, March / April 2019

## BOTANY PRACTICAL – I

Center:

Total Marks: 70

Date:

Time: 10.30 am onwards

- N.B. :
1. Draw neat labeled sketches whenever necessary.
  2. Do not write about theoretical points, unless asked specifically.
  3. Record your observations carefully and neatly wherever asked.
  4. Figures to the right indicate full marks.

- Q.1: Make a double stained permanent micro preparation of a T.S. of Specimen A and show it to the examiner (No written answer) 08
- Q.2: Macerate the given material 'B' and prepare the slide from it. Show the slide to the examiner (No written answer) 05
- Q-3: Assign the specimen 'C' to its respective family on the basis of characters observed by you in it. Give important vegetative and floral characters. Draw the floral diagram / write the floral formula of it. (Written answer) 08
- Q. 4: Prepare the list quadrat of a marked area and find out the percentage Frequency / Density of different species there in. (Written answer) 10
- Q-5: Setup the ecological experiment 'D' assigned to you & show it to the examiner (No written answer) 09

OR .

- Q.5. Show the ecological adaptations in the given specimen 'D' (No written answer) 09
- Q. 6 Identifications
- a) Identify and describe - (Angiosperm) 02
  - b) Identify and describe - (Anatomy) 02
  - c) Identify and describe- (Ecology) 02
  - d) Identify and comment - (Ecology) 02
  - e) Identify and comment. -(Ecology) 10
- Q. 7 a) Journal 10
- b) Excursion report.

# Solapur University, Solapur

B.Sc. Part – II Practical Examination, March / April 2019

## BOTANY PRACTICAL – I

Center:

Total Marks: 70

Date:

Time: 10.30 am onwards

- N.B. :
1. Draw neat labeled sketches whenever necessary.
  2. Do not write about theoretical points, unless asked specifically.
  3. Record your observations carefully and neatly wherever asked.
  4. Figures to the right indicate full marks.

- Q.1: Make a double stained permanent micro preparation of a T.S. of Specimen A and show it to the examiner (No written answer) 08
- Q.2: Macerate the given material 'B' and prepare the slide from it. Show the slide to the examiner (No written answer) 05
- Q-3: Assign the specimen 'C' to its respective family on the basis of characters observed by you in it. Give important vegetative and floral characters. Draw the floral diagram / write the floral formula of it. (Written answer) 08
- Q. 4: Prepare the list quadrat of a marked area and find out the percentage Frequency / Density of different species there in. (Written answer) 10
- Q-5: Setup the ecological experiment 'D' assigned to you & show it to the examiner (No written answer) 09

OR .

- Q.5. Show the ecological adaptations in the given specimen 'D' (No written answer) 09
- Q. 6 Identifications
- a) Identify and describe - (Angiosperm) 02
  - b) Identify and describe - (Anatomy) 02
  - c) Identify and describe- (Ecology) 02
  - d) Identify and comment - (Ecology) 02
  - e) Identify and comment. -(Ecology) 02
- Q. 7 a) Journal 10
- b) Excursion report. 10



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<http://su.digitaluniversity.ac/>

Blank Mark List For  
B.Sc.(with Credits) - Regular-Choice Based Credit System - B.Sc.-II - Sem-IV For Mar-2019  
College : Hemuli Chandeale College of B.C.S. (HCCB), Shelgaon, Shelgaon, Barshi, Solapur Pin: 413221

Paper Name: **Botany Practical (201403)** Practical UA Count of Student: **23**  
(Max Mark: 70 Min Mark: 28)

Sr. No.	Seat Number	PRN	Student Name	Marks	Signature
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23	815896	2016032500156684	MOTE GANESH MALHARI		

SOLAPUR UNIVERSITY, SOLAPUR

B.Sc. II Practical Examination March 2019

Botany Practical No. III (Practical UA Min marks: 28 Max. Marks: 70)

Center: Hemuji Chandele College, Shelgaon (R)

KEY

Date: / /2019

	X	Y
Q.1	Physiological Experiment: <u>Chromatography</u>	Physiological Experiment: <u>Estimation of TAN.</u>
Q.2	Physiological Experiment: <u>Effect of CO<sub>2</sub> conc<sup>n</sup></u>	Physiological Experiment: <u>Kranz anatomy.</u>
Q.3	Genetic Problem based on linkage and crossing over	
Q.4	<u>Dryg</u> yielding plant <u>Tinospora cordifolia.</u>	<u>Dryg</u> yielding plant <u>Syzygium aromaticum.</u>
Q.5	<u>Dye</u> yielding plant <u>Curcuma longa</u>	<u>Dye</u> yielding plant <u>Lawsonia inermis.</u>
Q.6	Identification	
	a) Cytogenetics: <u>Meiosis - Anaphase - II</u>	
	b) Economic Botany: <u>oil storing tissue (Cecumut)</u>	
	c) Economic Botany: <u>Cotton fibre morphology.</u>	
	d) Economic Botany: <u>Pesticide - Azadirachta indica.</u>	
	e) Economic Botany: <u>Ornamental plant - Bryophyllum.</u>	
Q.6	Journal Horticulture term paper	

Examiner:

1)

Blisse D.S.

DSB

2)

B. Deshmukhi R.R.

# सोलापूर विद्यापीठ सोलापूर

परीक्षाविभाग

## परिपत्रक

सर्व संलग्नित महाविद्यालयाच्या प्राचार्यांना कळविण्यात येते की, मार्च/एप्रिल २०१९ च्या परीक्षेकरीता सोलापूर विद्यापीठाच्या सॉफ्टवेअर प्रणालीद्वारे विद्यार्थ्यांना बैठक क्रमांक प्राप्त झाले नसल्याने (Generate) प्रात्यक्षिक परीक्षा विद्यार्थ्यांच्या पी.आर.एन. (PRN) क्रमांकानुसार घेवून प्रात्यक्षिक परीक्षेचे गुण परीक्षकांनी महाविद्यालयाच्या प्राचार्यांकडे गोपनीयरित्या जमा करावे.

महाविद्यालयाच्या प्राचार्यांनी विद्यापीठाच्या सॉफ्टवेअर प्रणालीद्वारे विद्यार्थ्यांना बैठक क्रमांक प्राप्त झाल्यानंतर महाविद्यालयाच्या Log in ID मधून ऑनलाईन पध्दतीने प्रात्यक्षिक परीक्षेचे गुण विद्यापीठाकडे जमा करून गुणपत्रिकेची मूळप्रत (Hard Copy) प्राचार्यांनी सिलबंद लखोट्यामध्ये प्राचार्यांच्या स्वाक्षरीसह विद्यापीठाकडे जमा करावे.

28/02/2019  
( प्रा. डॉ. श्री. रा. कोकर )  
संचालक  
परीक्षा व मूल्यमापन मंडळ

संदर्भ क्र. - सोविसो/परीक्षाविभाग/विज्ञानविभाग/२०१९/४५६

दि. २८/०२/२०१९

प्रत माहितीस्तव.

१. संगणक कक्ष, प्रस्तुत विद्यापीठ
२. सर्व अंतर्गत विभाग, परीक्षा व मूल्यमापन मंडळ.

English

Bsc-III

Good Luck

Page No.

Date

No	Name of student	Mark
	Gaikwad Kishor manohar	08
	Koli Shushma Shankar	10
	Chavan Parameshwar Shrihari	5
	Sagar Manuti Namwade	7
	Jadhav Priyanka Kerba	10
	Pradnya Rajendra Mali	10
	Mali Priyanka Kumar	8
	Hangarkar Smriti Dattatray	10
	Kanade Vaishnavi Gurunath	10
	Kale Asmita Anil	10
	Mane Apeksha Umakant	8
	Lamgunde Bhagyashri Kailas	10
	Jadhav Apeksha Ashok	9
	Niture Abhijit Sanjay	4
	Jadhav Akshay Parmeshwar	5
	Gaikwad Samarth Devidas	4
	Tate Pratiksha Annasaheb	10
	Tate Swapnil Umesh	4
	Thite Sujit Namdev	4



Honour's College, Bhubaneswar (B)

Internal Exam 2019-20

Bhubaneswar University, Bhubaneswar

12

Subject: Computer Science-IV

Date: 08/02/2020

Time: 11:30 to 12:30

Marks: 15

Year: B.Sc-1

1) Multiple Choice Question.

Marks-06

Initial value of auto storage class is \_\_\_\_\_  
a) 0 b) 1 c) -1 d) Garbage

Which of the following is not a storage class specifier in C?  
a) auto b) register c) static d) volatile

The Recursive functions are executed in a \_\_\_\_\_  
a) Parallel order b) First in First out order c) Last in First out order d) Random order

What is initial value of static class?  
a) 1 b) Garbage c) 0 d) 10

Functions have \_\_\_\_\_  
a) Local Scope b) Block Scope c) File Scope d) No Scope at all

When a function is recursively called all the automatic variables are stored in a \_\_\_\_\_  
a) Stack b) Queue c) Array d) Register

2) Attempt any two

Marks-04

- 1) Define  
a) Recursion b) Pointer
- 2) Write short note on static storage class.
- 3) What are the types of parameters?

3) Attempt any one

Marks-05

- 1) Explain Dynamic memory allocation in detail.
- 2) Write a c program for factorial using recursion.

Internal Exam 2018-19

Internal Exam 2018-19

Good Luck

Page No.

Good Luck

Page No.

Date

Sub! - Computer sci. (IV) BSc.

Name

Signature

Belake Snehal Kausar

Belake

Panke Akanksha Rajendra

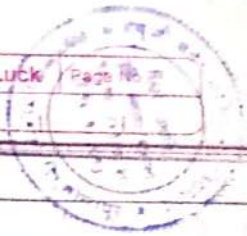
Panke, A.R.

Mamiyar Ayesha Jabbar

Ayesha

Mule Nagesh Nandasahab

Nagesh



Name :- Shaloke Snehal Kauravi  
Sub :- Computer - IV  
class :- B.Sc. - I  
Date :- 11-2-2019  
Time :- 12 to 1:00

*Shaloke*

M.C.Q.

1. Initial value of auto storage class is Garbage.
2. Which of the following is not a storage class specifier in C?  
→ volatile.
3. The Recursive functions are executed in or Last in First out order.
4. What is initial value of static class?  
→ 0
5. Functions have local scope.
6. When a fun<sup>n</sup> is recursively called out the automatic variables are stored in Register stack.

cs. 2.

1.

→ Recursion :-

"When a fun<sup>n</sup> call itself repeatedly, then it is called recursion"

pointer :-

"pointer is a variable, which stores the address of the another variable."

syntax :-

data type - \* variable name.

ex :-

int \*p

2. §

→ Storage class :-

To fully defined a variable's one needs to mention not only its "type" but also its storage class. In other words all variables do not have data type they also have a storage class. There are basically two kinds of location in a computer where the variables may kept the value of i.e. memory & cpu register. moreover the storage class tells

1. Where the variable is stored.
2. What is the initial value of the variable, if the initial value is not specifically assigned.
3. ~~What~~ What is the scope of variable.
4. What is the life of the variable, i.e. how long the variable can exist.

There are basically four types of storage class, i.e.

1. Automatic storage class.
2. Register storage class.
3. Static storage class.
4. External storage class.

1. Automatic storage class :-

The features of automatic storage class to be mentioned are as follow:

1. Store :- memory.
2. Default initial value :- garbage value.

3. Scope :- local to the block, in which variable is defined.

4. life :- program control will remain within the block, in which variable is defined.

02 Note :- The keyword 'Auto' is not automatic.

5. → There are two types of parameter.

i.e.

1. actual parameter.

2. Formal parameter.

1. Actual Parameter :-

The actual parameter which is used for the called function.

02 2. Formal parameter :-

The formal parameter which is used for the calling function.

Q. 3.

2.

→ Dynamic memory allocation :-

An Array is a collection of fixed number of value of single type. i.e. we ~~can~~ ~~it~~ needs to declare size of the array before we can use it. Sometimes the size of the array we declare is insufficient we can allocate them memory manually during runtime. This is called dynamic memory allocation.

There are four types of dynamic memory allocation i.e.

1. malloc ( )
2. calloc ( )
3. Realloc ( )
4. Free ( )

↳ Malloc ( ) :-

The name "malloc ( )" stands for memory allocation. The malloc ( ) function reserve a ~~single~~ block of memory of the specified number of byte. & its returns the pointer of the type "void" which can be casted by pointer of any type.

2. Calloc ( ) :-

The name "calloc ( )" stands for contiguous memory allocation.

The malloc ( ) function allocates single block of memory whereas calloc ( ) function allocates multiple block of memory.

3. Free ( ) :-

The free ( ) function releases the space of the function.

Syntax :-

Free (ptr)

4. Realloc ( ) :-

If the dynamically allocated memory is insufficient or more than required, then you can change the size of the previous memory using realloc ( ) function.



2)

→ Recursion :-

"When a fun<sup>n</sup> call itself repeatedly, then it is called recursion".

ex :-

```
#include <stdio.h>
#include <conio.h>
```

```
int factorial (fact)
```

```
int main ()
```

```
{
```

```
int a, fact;
```

```
printf ("Enter any value ");
```

```
scanf ("%d", &a);
```

```
fact = factorial;
```

```
return 0
```

```
}
```

```
{
```

```
int F
```

```
if (x == 1);
```

```
else,
```

```
F = * * * factorial (x-1);
```

```
return (F)
```

```
};
```

03



# Punyashlok Ahilyadevi Holkar Solapur University

Dnyanteerth Nagar, Kegaon, Solapur-Pune National Highway, Solapur- 413255, Maharashtra (India)

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Blank Mark List For

B.Sc(Hons)(with Credits) - Regular-CBCS Pattern 2019 - B.Sc.-II - Sem-IV For Mar-2022

College : Hemuji Chandele College of B.C.S. (HCCB), Shelgoan, Shelgoan, Barshi, Solapur Pin: 413221

Paper Name: Botany Practical (19201403) Practical UA (Max Mark: 80 Min Mark: 32) Count of Student: 44

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
1	005628	2020032500056282	KANADE VAISHNAVI GURUNATH	63	63
2	006294	2020032500062947	TATE PRATIKSHA ANNASAHEB	62	62
3	006296	2020032500062963	TAKBHATE RUJUJA VIJAY	58	58
4	006297	2020032500062971	MANE APEKSHA UMAKANT	58	58
5	006300	2020032500063003	PUNEKAR JAY SANTOSH	06	06
6	006301	2020032500063011	NAVGUDE SANJANA TUKARAM	78	78
7	006390	2020032500063904	GAVALI PRITI RAJENDRA	57	57
8	006392	2020032500063927	PAWAR RUTIKA SHRIMANT	63	63
9	007448	2020032500074481	BODHALE RESHMA DHARMRAJ	57	57
10	009383	2020032500093837	JADHAV APEKSHA ASHOK	62	62
11	009384	2020032500093845	MALI PRIYANKA KUMAR	70	70
12	009386	2020032500093861	DALAVE SWAPNIL SANTOSH	60	60
13	009387	2020032500093876	KAPSE VIJAYKUMAR BHARAT	06	06
14	012164	2020032500121646	WAGHMARE PRAJWAL DATTATRAY	59	59
15	012165	2020032500121654	GHODKE KUNAL MAHADEV	61	61
16	012944	2020032500129441	WANKHARE SANIKA NANASAHEB	68	68
17	013425	2020032500134256	BANDGAR TEJAS RAJESH	45	45
18	013431	2020032500134314	YEDKE PRUTHVIRAJ SIDDHU	38	38
19	013804	2020032500138045	JADHAV PRIYANKA KERABA	54	54
20	013805	2020032500138053	KOLI SUSHMA SHANKAR	65	65
21	013806	2020032500138061	MALI PRADNYA RAJENDRA	64	64
22	013807	2020032500138076	MANE AISHWARYA RANJEET	20. (ub)	
23	013809	2020032500138092	KALE ASMITA ANIL	79	79
24	013820	2020032500138207	KARANDE SRUSHTI GANESH	06	06
25	013821	2020032500138215	INGOLE DATTATRAY SHRIDHAR	61	61
26	013822	2020032500138223	SUTAR SARANG BHARAT	39	39
27	013823	2020032500138231	THITE SUJIT NAMDEV	57	57
28	013982	2020032500139822	GATE ANIKET BALASAHEB	06	06

*(Signature)*

EXAM MAR-2021



# PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR

## EXAM OF 2021 SEMESTER PATTERN EXAMINATION

### FINAL PROGRAM OF B.Sc. SEMESTER – III TO VI MARCH-2021 EXAMINATION TO BE HELD IN JULY- 2021

1. The examinations will be conducted for semesters III to VI.
2. The student will get one hour (1 hr) to solve the paper.
3. The theory examination will be conducted through online mode; which may be appeared/attempted from home/designated places.
4. The time slot given in the timetable shows 2 hrs for every day; however, the students will get 1 hr to solve each paper. If any student has to appear for two papers on the same day; in this case, he will solve two papers in 2 hours.

**B.Sc. Sem - III (New w.e.f. June 2020)**  
**(CBCS Pattern-2019)**

Day & Date	Sr. No	Subject Time: 10:00 a.m. to 12:00 p.m (Only 1 hr out of this slot)	Day & Date	Sr. No	Subject Time: 12:30 p.m. to 2:30 p.m (Only 1 hr out of this slot)
Friday 16/07/2021	101	CHEMISTRY Paper-V (19201305) Organic Chemistry	Friday 16/07/2021	102	COMPUTER SCIENCE Paper-V (19201307) Data Structure
Saturday 17/07/2021	103	CHEMISTRY Paper-VI (19201306) Inorganic Chemistry	Saturday 17/07/2021	104	COMPUTER SCIENCE Paper-VI (19201308) Design analysis and Algorithm
Sunday 18/07/2021	105	PHYSICS Paper-V (19201323) General Physics and Sound	Sunday 18/07/2021	106	BIO-CHEMISTRY Paper-I (19201303) Biomolecules
				107	PLANT PROTECTION Paper-I (19201325) Major crops and methods of integrated plant protection.
Monday 19/07/2021	108	PHYSICS Paper-VI (19201324) Electronics	Monday 19/07/2021	109	BIO-CHEMISTRY Paper-II (19201304) Biochemical Techniques
				110	PLANT PROTECTION Paper-II (19201326) Crop Diseases and their management
Thursday 22/07/2021	111	STATISTICS Paper-V (19201329) Probability Distributions - I	Thursday 22/07/2021	112	METEOROLOGY Paper-I (19201321) Climatology
				113	GEO-CHEMISTRY Paper-I (19201313) Introduction to Geochemistry
				114	ZOOLOGY Paper-V (19201331) Cell Biology
Friday 23/07/2021	116	STATISTICS Paper-VI (19201330) Statistical Methods	Friday 23/07/2021	115	METEOROLOGY Paper-II (19201322) General Meteorology
				116	GEO-CHEMISTRY Paper-II (19201314) Introduction to Solar System and Geo- Sphers
				117	ZOOLOGY Paper-VI (19201332) Principles of Ecology
Saturday 24/07/2021	118	MATHEMATICS Paper-V (19201319) Differential Calculus	Saturday 24/07/2021	119	BOTANY Paper-V (19201301) Plant Anatomy
Sunday 25/07/2021	120	MATHEMATICS Paper-VI (19201320) Laplace Transform	Sunday 25/07/2021	121	BOTANY Paper-VI (19201302) Plant metabolism
Monday 26/07/2021	122	ELECTRONICS Paper-V (19201309) Electronic Circuits	Monday 26/07/2021	123	PSYCHOLOGY Paper-V (19201327) Experimental Psychology
	124	GEOGRAPHY Paper-V (19201311) Climatology		125	GEOLOGY Paper-V (19201315) IGNEOUS PETROLOGY
				126	MICROBIOLOGY Paper-V (19201317) Bacterial Cytology and Physiology
Tuesday 27/07/2021	127	ELECTRONICS Paper-VI (19201310) Pulse & Switching Circuits	Tuesday 27/07/2021	128	PSYCHOLOGY Paper-VI (19201328) Social Psychology
	129	GEOGRAPHY Paper-VI (19201312) Geography of India		130	GEOLOGY Paper-VI (19201316) SEDIMENTARY AND METAMORPHIC PETROLOGY
				131	MICROBIOLOGY Paper-VI (19201318) Bacterial Genetics

**B.Sc. Sem - III (w.e.f. June 2017)**  
**(CBCS Pattern-2016) (Old up to March 2021)**

Day & Date	Sr. No	Subject Time: 10:00 a.m. to 12:00 p.m (Only 1 hr out of this slot)	Day & Date	Sr. No	Subject Time: 12:30 p.m. to 2:30 p.m (Only 1 hr out of this slot)
Friday 16/07/2021	101	CHEMISTRY Paper-V (201305) Organic Chemistry	Friday 16/07/2021	102	COMPUTER SCIENCE Paper-V (201317) Object Oriented Programming using C++
Saturday 17/07/2021	103	CHEMISTRY Paper-VI (201306) Inorganic Chemistry	Saturday 17/07/2021	104	COMPUTER SCIENCE Paper-VI (201318) Software Engineering
Sunday 18/07/2021	105	PHYSICS Paper-V (201303) General Physics, Heat and Sound	Sunday 18/07/2021	106	BIO-CHEMISTRY Paper-I (201331) Biomolecules
				107	PLANT PROTECTION Paper-I (201327) Major Crops and Methods of Integrated Plant protection
Monday 19/07/2021	108	PHYSICS Paper-VI (201304) Electronics	Monday 19/07/2021	109	BIO-CHEMISTRY Paper-II (201332) Biochemical Techniques
				110	PLANT PROTECTION Paper-II (201328) Crop Diseases and their management
Thursday 22/07/2021	111	STATISTICS Paper-V (201307) Continuous Probability Distributions	Thursday 22/07/2021	112	METEOROLOGY Paper-I (201323) Climatology
				113	GEO-CHEMISTRY Paper-I (201325) Introduction to Geochemistry
				114	ZOOLOGY Paper-V (201319) Animal Diversity – III
Friday 23/07/2021	116	STATISTICS Paper-VI (201308) Discrete Probability Distributions and Statistical Methods	Friday 23/07/2021	115	METEOROLOGY Paper-II (201324) General Meteorology
				116	GEO-CHEMISTRY Paper-II (201326) Introduction to Solar System and Geo-Sphers
				117	ZOOLOGY Paper-VI(201320) Cell Science, Genetics, Biological Chemistry and Economic Zoology
Saturday 24/07/2021	118	MATHEMATICS Paper-V (201313) Differential Calculus	Saturday 24/07/2021	119	BOTANY Paper-V (201301) Anatomy and Taxonomy of Angiosperms
Sunday 25/07/2021	120	MATHEMATICS Paper-VI (201314) Real Analysis	Sunday 25/07/2021	121	BOTANY Paper-VI (201302) Plant Ecology
Monday 26/07/2021	122	ELECTRONICS Paper-V (201315) Electronic Circuits	Monday 26/07/2021	123	PSYCHOLOGY Paper-V (201329) Experimental Psychology
	124	GEOGRAPHY Paper-V (201321) Biogeography - I		125	GEOLOGY Paper-V (201309) Optics and Mineralogy
				126	MICROBIOLOGY Paper-V (201311) Cytology and Physiology of Microorganisms
Tuesday 27/07/2021	127	ELECTRONICS Paper-VI (201316) Pulse & Switching Circuits	Tuesday 27/07/2021	128	PSYCHOLOGY Paper-VI (201330) Social Psychology
	129	GEOGRAPHY Paper-VI (201322) Soil Science		130	GEOLOGY Paper-VI (201310) Structural Geology
				131	MICROBIOLOGY Paper-VI (201312) Bacterial Genetics

<b>B.Sc. Sem – IV ( New w.e.f. Nov 2020)</b> <b>(CBCS Pattern-2019)</b>					
<b>Day &amp; Date</b>	<b>Sr. No</b>	<b>Subject</b> <b>Time: 3:00 p.m. to 5:00 p.m</b> <b>(Only 1 hr out of this slot)</b>	<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 3:00 p.m. to 5:00 p.m</b> <b>(Only 1 hr out of this slot)</b>
<b>Saturday</b> <b>10/07/2021</b>	132	<b>CHEMISTRY Paper–VII (19201407)</b> Physical Chemistry	<b>Sunday</b> <b>11/07/2021</b>	133	<b>COMPUTER SCIENCE Paper- VII (19201410)</b> Software Engineering
<b>Monday</b> <b>12/07/2021</b>	134	<b>CHEMISTRY Paper–VIII (19201408)</b> Analytical & Industrial Inorganic Chemistry	<b>Tuesday</b> <b>13/07/2021</b>	135	<b>COMPUTER SCIENCE Paper– VIII (19201411)</b> Database Management System
<b>Wednesday</b> <b>14/07/2021</b>	136	<b>PHYSICS Paper-VII (19201434)</b> Optics	<b>Thursday</b> <b>15/07/2021</b>	137	<b>BIO-CHEMISTRY Paper-III (19201404)</b> NUTRITION AND METABOLISM
				138	<b>PLANT PROTECTION Paper–VII (19201437)</b> Introduction to weeds & non insect pests
<b>Friday</b> <b>16/07/2021</b>	139	<b>PHYSICS Paper-VIII (19201435)</b> Modern Physics	<b>Saturday</b> <b>17/07/2021</b>	140	<b>BIO-CHEMISTRY Paper-IV (19201405)</b> MOLECULAR BIOCHEMISTRY & DISEASES
				141	<b>PLANT PROTECTION Paper–VIII (19201438)</b> Insect pests and their Management.
<b>Sunday</b> <b>18/07/2021</b>	142	<b>STATISTICS Paper–VII (19201443)</b> Probability Distributions - II	<b>Monday</b> <b>19/07/2021</b>	143	<b>METEOROLOGY Paper–III (19201431)</b> Applied Climatology
				144	<b>GEO-CHEMISTRY Paper-III (19201419)</b> Principles of Geochemistry
				145	<b>ZOOLOGY Paper–VII (19201446)</b> Fundamentals of Biochemistry
<b>Thursday</b> <b>22/07/2021</b>	146	<b>STATISTICS Paper–VIII (19201444)</b> Applied Statistics	<b>Friday</b> <b>23/07/2021</b>	147	<b>METEOROLOGY Paper–IV (19201432)</b> Meteorological Instruments
				148	<b>GEO-CHEMISTRY Paper-IV (19201420)</b> Chemistry of the Earth
				149	<b>ZOOLOGY Paper–VIII (19201447)</b> ANIMAL PHYSIOLOGY: CONTROLLING AND COORDINATING SYSTEMS
<b>Saturday</b> <b>24/07/2021</b>	150	<b>MATHEMATICS Paper–VII (19201428)</b> Differential Equations	<b>Sunday</b> <b>25/07/2021</b>	151	<b>BOTANY Paper–VII (19201401)</b> Plant Physiology
<b>Monday</b> <b>26/07/2021</b>	152	<b>MATHEMATICS Paper–VIII (19201429)</b> Abstract Algebra – I	<b>Tuesday</b> <b>27/07/2021</b>	153	<b>BOTANY Paper–VIII (19201402)</b> EMBRYOLOGY OF ANGIOSPERMS
<b>Wednesday</b> <b>28/07/2021</b>	154	<b>GEOGRAPHY Paper–VII (19201416)</b> Economic Geography	<b>Thursday</b> <b>29/07/2021</b>	155	<b>PSYCHOLOGY Paper–VII (19201440)</b> Cognitive Psychology
	156	<b>ELECTRONICS Paper–VII (19201413)</b> Operational Amplifier and Applications		157	<b>GEOLOGY Paper–VII (19201422)</b> STRATIGRAPHY
				158	<b>MICROBIOLOGY Paper–VII (19201425)</b> Immunology & Medical Microbiology
<b>Friday</b> <b>30/07/2021</b>	159	<b>GEOGRAPHY Paper–VIII (19201417)</b> Environmental Geography	<b>Saturday</b> <b>31/07/2021</b>	160	<b>PSYCHOLOGY Paper–VIII (19201441)</b> Positive Psychology
	161	<b>ELECTRONICS Paper–VIII (19201414)</b> Digital Techniques and Microprocessor		162	<b>GEOLOGY Paper–VIII (19201423)</b> PALAEOONTOLOGY
				163	<b>MICROBIOLOGY Paper–VIII (19201426)</b> Industrial Microbiology

<b>B.Sc. Sem-IV (New w.e.f. Nov 2021)</b> (CBCS Pattern-2019)			
<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>SUBJECT</b> <b>Time: 12:30 p.m. to 2:30 p.m</b> <b>(Only 1 hr out of this slot)</b>	
<b>Sunday</b> <b>08/08/2021</b>	425	<b>Environmental Studies (ENS)</b>	

<b>B.Sc. Sem-IV (w.e.f. Nov 2017)</b> (CBCS Pattern-2019) (Old up to OCT.2021)			
<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>SUBJECT</b> <b>Time: 12:30 p.m. to 2:30 p.m</b> <b>(Only 1 hr out of this slot)</b>	
<b>Sunday</b> <b>08/08/2021</b>	425	<b>Environmental Studies (2015)</b>	

<b>B.Sc. Sem – IV (w.e.f. Nov 2017)</b> <b>(CBCS Pattern-2016) (Old up to OCT.2021)</b>					
Day & Date	Sr. No	Subject Time: 3:00 p.m. to 5:00 p.m (Only 1 hr out of this slot)	Day & Date	Sr. No.	Subject Time: 3:00 p.m. to 5:00 p.m (Only 1 hr out of this slot)
Saturday 10/07/2021	132	CHEMISTRY Paper–VII(201407) Physical Chemistry	Sunday 11/07/2021	133	COMPUTER SCIENCE Paper- VII (201425) Data Structures
Monday 12/07/2021	134	CHEMISTRY Paper–VIII(201408) Analytical & Industrial Inorganic Chemistry	Tuesday 13/07/2021	135	COMPUTER SCIENCE Paper– VIII (201426) DBMS Using Oracle
Wednesday 14/07/2021	136	PHYSICS Paper-VII (201404) Optics	Thursday 15/07/2021	137	BIO-CHEMISTRY Paper-III (201446) Nutrition and Metabolism
				138	PLANT PROTECTION Paper–III (201440) Introduction to weeds & on insect Pests
Friday 16/07/2021	139	PHYSICS Paper-VIII (201405) Modern Physics	Saturday 17/07/2021	140	BIO-CHEMISTRY Paper-IV(201447) Molecular Biochemistry & Diseases
				141	PLANT PROTECTION Paper–IV (201441) Insect pests and their Management
Sunday 18/07/2021	142	STATISTICS Paper–VII (201410) Continuous Probability Distributions and Exact Sampling Distributions	Monday 19/07/2021	143	METEOROLOGY Paper–III (201434) Applied Climatology
				144	GEO-CHEMISTRY Paper-III (201437) Principles of Geochemistry
				145	ZOOLOGY Paper–VII (201428) Animal Diversity – IV
Thursday 22/07/2021	146	STATISTICS Paper–VIII(201411) Applied Statistics	Friday 23/07/2021	147	METEOROLOGY Paper–IV (201435) Meteorological Instruments
				148	GEO-CHEMISTRY Paper-IV (201438) Chemistry of the Earth
				149	ZOOLOGY Paper–VIII(201429) Histology & Physiology
Saturday 24/07/2021	150	MATHEMATICS Paper–VII(201419) Differential Equations	Sunday 25/07/2021	151	BOTANY Paper–VII (201401) Plant Physiology and Cytogenetics
Monday 26/07/2021	152	MATHEMATICS Paper–VIII(201420) Abstract Algebra – I	Tuesday 27/07/2021	153	BOTANY Paper–VIII (201402) Economic Botany
Wednesday 28/07/2021	154	GEOGRAPHY Paper–VII (201431) Biogeography – II	Thursday 29/07/2021	155	PSYCHOLOGY Paper–VII(201443) Cognitive Psychology
	156	ELECTRONICS Paper–VII (201422) Fundamentals of Operational Amplifier		157	GEOLOGY Paper–VII(201413) Igneous Petrology
				158	MICROBIOLOGY Paper–VII(201416) Immunology & Medical Microbiology
Friday 30/07/2021	159	GEOGRAPHY Paper–VIII (201432) Agricultural Geography	Saturday 31/07/2021	160	PSYCHOLOGY Paper–VIII(201444) Positive Psychology
	161	ELECTRONICS Paper–VIII (201423) Digital Techniques and Microprocessor		162	GEOLOGY Paper–VIII (201414) Sedimentary & Metamorphic Petrology
				163	MICROBIOLOGY Paper–VIII(201417) Industrial Microbiology-II



**B.Sc. Sem - V (w.e.f. June 2018)**  
**(CBCS Pattern-2016)**

<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 12:30 p.m. to 2:30 p.m</b> <b>(Only 1 hr out of this slot)</b>
<b>Saturday</b> <b>10/07/2021</b>	164	<b>English (Compulsory)</b> Literary Quest (201501)
		<b>Special Paper - IX</b>
<b>Sunday</b> <b>11/07/2021</b>	165	<b>Physics Paper- IX (201502)</b> Mathematical Physics & Statistical Physics
	166	<b>Chemistry Paper- IX (201506)</b> Physical Chemistry
	167	<b>Botany Paper- IX (201514)</b> Reproductive Biology of Angiosperms
	168	<b>Zoology Paper- IX (201518)</b> Non-chordates
	169	<b>Mathematics Paper- IX (201510)</b> Algebra-II
	170	<b>Statistics Paper- IX (201534)</b> Statistical Inference– I
	171	<b>Geology Paper- IX (201522)</b> Earth's Physics and Dynamics
	172	<b>Microbiology Paper- IX (201526)</b> Virology
	173	<b>Electronics Paper- IX (201530)</b> Linear Integrated Circuits and Applications
	174	<b>Computer Science Paper- IX (201538)</b> Visual Programming using C++
		<b>Special Paper – X</b>
<b>Monday</b> <b>12/07/2021</b>	175	<b>Physics Paper-X (201503)</b> Solid State Physics
	176	<b>Chemistry Paper- X (201507)</b> Inorganic Chemistry
	177	<b>Botany Paper- X (201515)</b> Genetics
	178	<b>Zoology Paper- X (201519)</b> Developmental Biology
	179	<b>Mathematics Paper- X (201511)</b> Complex Analysis
	180	<b>Statistics Paper- X (201535)</b> Probability Distributions
	181	<b>Geology Paper- X (201523)</b> Geomorphology
	182	<b>Microbiology Paper- X (201527)</b> Agricultural Microbiology
	183	<b>Electronics Paper- X (201531)</b> Fundamentals of Microcontroller
	184	<b>Computer Science Paper- X (201539)</b> Core Java

**B.Sc. Sem - V (w.e.f. June 2018) (Cont...)**  
**(CBCS Pattern-2016)**

<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 12:30 p.m. to 2:30 p.m</b> <b>(Only 1 hr out of this slot)</b>
		<b>Special Paper - XI</b>
<b>Tuesday</b> <b>13/07/2021</b>	185	<b>Physics Paper XI (201504)</b> Classical Mechanics
	186	<b>Chemistry Paper XI (201508)</b> Organic Chemistry
	187	<b>Botany Paper XI (201516)</b> Plant Physiology
	188	<b>Zoology Paper XI (201520)</b> Comparative Anatomy of Chordates
	189	<b>Mathematics Paper XI (201512)</b> Integral Calculus
	190	<b>Statistics Paper XI (201536)</b> Sampling Techniques
	191	<b>Geology Paper XI (201524)</b> Stratigraphy of India Part – I
	192	<b>Microbiology Paper XI (201528)</b> Immunology
	193	<b>Electronics Paper XI (201532)</b> Sensors and Transducers
	194	<b>Computer Science Paper XI (201540)</b> Operating System
		<b>Special Paper - XII</b>
<b>Wednesday</b> <b>14/07/2021</b>	195	<b>Physics Paper XII</b> Nuclear Physics (201505)
		OR
	196	Energy Studies (201542)
	197	<b>Chemistry Paper XII</b> Analytical and Industrial Physical Chemistry (201509)
		OR
	198	Methodology and Materials of Industrial Importance(201543)
		<b>Botany Paper XII</b>
199	Plant Breeding (201517)	
	OR	
200	Nursery and Gardening(201545)	

		<b>Zoology Paper XII</b>
201	Biostatistics, Bioinformatics, Medical Zoology and Evolutionary Biology(201521)	
		OR
202	Biodiversity & Conservation Biology(201546)	
		<b>Mathematics Paper XII</b>
203	Partial Differential Equations (201513)	
		OR
204	Mathematical Analysis (201544)	
		<b>Statistics Paper XII</b>
205	Operations Research(201537)	
		OR
206	Regression Analysis(201550)	
		<b>Geology Paper XII</b>
207	Applied Geology Part – I(201525)	
		OR
208	Crystallography and Optical Mineralogy(201547)	
		<b>Microbiology Paper XII</b>
209	Industrial Microbiology- I(201529)	
		OR
210	Industrial Microbiology- II(201548)	
		<b>Electronics Paper XII</b>
211	Biomedical Electronics (201533)	
		OR
212	Electronics Communication(201549)	
		<b>Computer Science Paper XII</b>
213	Python (201541)	
		OR
214	Software Testing (201551)	

<b>B.Sc. Sem – VI (w.e.f. Nov. 2018)</b> <b>(CBCS Pattern-2016)</b>		
Day & Date	Sr. No.	Subject <b>Time: 10:00 a.m. to 12:00 p.m</b> <b>(Only 1 hrs out of this slot).</b>
<b>Saturday</b> <b>10/07/2021</b>	215	English (Compulsory) (201601) <b>Literary Quest</b>
		<b>Special Paper-XIII</b>
<b>Sunday</b> <b>11/07/2021</b>	215	<b>Physics Paper-XIII (201602)</b> Electrodynamics
	217	<b>Chemistry Paper-XIII (201607)</b> Physical Chemistry
	218	<b>Botany Paper- XIII (201617)</b> Molecular Biology
	219	<b>Zoology Paper- XIII (201622)</b> Physiology
	220	<b>Mathematics Paper- XIII (201612)</b> Metric Spaces
	221	<b>Statistics Paper- XIII (201642)</b> Statistical Inference–II
	222	<b>Geology Paper- XIII (201627)</b> Economic Geology and Prospecting
	223	<b>Microbiology Paper- XIII (201632)</b> Microbial Genetics
	224	<b>Electronics Paper- XIII (201637)</b> Power Electronics
	225	<b>Computer Science Paper- XIII (201647)</b> Web Technology
		<b>Special Paper -XIV</b>
<b>Monday</b> <b>12/07/2021</b>	226	Physics Paper-XIV Materials Science (201603)
	227	Chemistry Paper- XIV Inorganic Chemistry (201608)
	228	Botany Paper- XIV <b>Plant Biotechnology (201618)</b>
	229	Zoology Paper- XIV Economic Zoology (201623)
	230	Mathematics Paper- XIV Numerical Analysis (201613)
	231	Statistics Paper- XIV Probability Theory (201643)
	232	Geology Paper- XIV Environmental Geology (201628)
	233	Microbiology Paper- XIV Microbial Biochemistry (201633)
	234	Electronics Paper- XIV <b>Embedded System Design (201638)</b>
	235	Computer Science Paper- XIV <b>Advanced Java (201648)</b>

<b>B.Sc. Sem – VI (w.e.f. Nov. 2018)</b> <b>(CBCS Pattern-2016)</b>		
Day & Date	Sr. No	Subject <b>Time: 10:00 a.m. to 12:00 p.m</b> <b>(Only 1 hr out of this slot).</b>
		<b>Special Paper XV</b>
<b>Tuesday</b> <b>13/07/2021</b>	236	<b>Physics Paper-XV (201604)</b> Atomic, Molecular Physics and Quantum Mechanics
	237	<b>Chemistry Paper- XV (201609)</b> Organic Chemistry
	238	<b>Botany Paper- XV (201619)</b> Plant Metabolism
	239	<b>Zoology Paper- XV (201624)</b> Molecular Biology and Biotechnology
	240	<b>Mathematics Paper- XV (201614)</b> Programming in C
	241	<b>Statistics Paper- XV (201644)</b> Designs of Experiments
	242	<b>Geology Paper- XV (201629)</b> Stratigraphy of India Part – II
	243	<b>Microbiology Paper- XV (201634)</b> Environmental Microbiology
	244	<b>Electronics Paper- XV (201639)</b> Electronics Instrumentation
	245	<b>Computer Science Paper- XV (201649)</b> Data Communication and Networking – II
		<b>Special Paper XVI</b>
<b>Wednesday</b> <b>14/07/2021</b>	246	<b>Physics Paper-XVI</b> Electronics (201605) OR
	247	Instrumentation (201652)
	248	<b>Chemistry Paper- XVI</b> Analytical and Industrial Organic Chemistry (201610) OR
	249	Applied Organic Chemistry (201653)
	250	<b>Botany Paper- XVI</b> Biostatistics (201620) OR
	251	Horticultural practices and post harvest technology (201655)
	252	<b>Zoology Paper- XVI</b> Endocrinology, Environmental Biology and Toxicology (201625) OR
	253	Techniques in Biology (201656)
	254	<b>Mathematics Paper- XVI</b> Integral Transform (201615) OR
	255	Graph Theory and Combinatorics (201654)

256	<b>Statistics Paper- XVI</b> Quality Management and Reliability (201645) OR
257	Time Series Analysis (201660)
258	<b>Geology Paper- XVI (201657)</b> Applied Geology Part – II OR
259	Geochemistry (201630)
260	<b>Microbiology Paper- XVI</b> Clinical Microbiology-I (201635) OR
261	Clinical Microbiology-II (201658)
262	<b>Electronics Paper- XVI</b> Modern Communication Systems (201640) OR
263	Virtual Instrumentation (201659)
264	<b>Computer Science Paper- XVI (201650)</b> Angular JS OR
265	Linux Operating System (201661)

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Ref No.: PAHSUS/EXAM/TIME-TABLE/2021/669

Date:22/06/2021

Sd/-

I/C Director

Board of Examinations and Evaluation

# Session-I

B.Sc. I + III

Sr. No.	Block No.	Supervisor's Name	Answer Paper No. from-to	Total	Present	Absent	Retuens. A-Book	Jr. Sup. Sign	ENT Sr. Sup. Sign
<p><b>Sub-English (22221101) 23/01/2023</b></p>				Time: 12:00 to 02:00 pm	SLR No - FZ-14 FZ-26				
1	01	Jadhav R.P.	02171501 to 02171525	25	24	01	02171519	Geopant	Birani
2	02	Bachute R.S	02171527 to 02171549 old - 02171539 to 02171539 Absent (01) 02171526	25 +1	13 old = 01	01		Geopant	Birani
<p><b>Sub-Chemistry (22221106) 24/01/2023</b></p>				Time: 12:00 to 02:00 pm	SLR - FZ-2				
1	01	Miss. - Dindore. P.A	02171551 to 02171575	25	25	00	-		
2	02	Miss. Dindore. P.G	02171576 to 02171588	13	13	00	01 (Miss. Dindore)		
<p><b>Sub-computer science - I (22221120)</b></p>				Time: 3:00 to 5:00 pm	SLR - FZ-3				
1	01	Miss. Dindore. P.G	02171589 to 02171600	12	12	00	-		

University Exam - Oct-Nov-2022

Session-I

B.Sc. I & III

GoodLuck Page No. Date

GoodLuck Page No. Date

Sr.No.	Block No.	Supervisor's Name	Answer Paper No. from-to
Sub-English (2222) 23/01/2023			
1	01	Jadhav R.P.	02171501 to 02171525
2	02	Bachute R.S	02171527 to 02171548 old - 02171539 to 02171539 Absent (01) 02171526
Sub-Chemistry (2222) 24/01/2023			
1	01	Miss. Dindore. P.A	02171551 to 02171575
2	02	Miss. Dindore. P.G	02171576 to 02171588
Sub-computer science - I (2222) 25/01/2023			
1	01	Miss. Dindore. P.G	02171589 to 02171600

Total	Present	Absent	Rebueno A. Book.	Jr. Sup Sign	ENT Sr. Sup Sign	Ext Sr. Sup Sign
Time 12:00 to 02:00 pm SLR No - FZ-1 & FZ-26						
25	24	01	02171519	Georgina	BiradAD	
25	13	01				
+1	old = 01					
	14					
Time 12:00 to 02:00 pm SLR-FZ-2						
25	25	00				
13	13	00				
Time 3:00 to 5:00 PM SLR-FZ-3						
12	12	00				



Sr. No.	Block No.	Sup. Name	Answerbook No. From-to	Total student	Present	Absent	A.B. Return	Jr. Sup. Sign	Int. Sr. Sign	Ext. Sr. Sign
<p>Sub - Chemistry - II (22221107) 25/01/2023</p>										
01	01	Mrs/Miss. - Bikkad. A. B	(021701676 to 02171700)	25	25	00	-	Bikkad		
02	02	Mrs/Miss. Dolare. P. G Mr/Miss Dolare. P. G.	02171662 to 02171674 212940	13 01	13 00	00 01		Dolare		
<p>Sub - Computer Science - II (22221121) 25/01/23</p>										
17	01	Miss. Dolare. P. G	02171701 to 02171712	12	12	00		Dolare		
<p>Sub - Physics - I (22221104) 27/01/2023</p>										
1	01	Jadhav. S. S	(02171713 to 02171724)	12	12	00		Jadhav		
<p>Sub - Microbiology - I (22221114) 27-1-23</p>										
1	01	Bachule R. S	02171624 to 02171649	26	26	00		Bachule		
<p>Sub - English (Comp) 27-1-23 Time - 3:00 to 5:00 SLR-FZ-140</p>										
01		Jadhav. R. P	02171788 to 02171611	25	25	00		Jadhav		
02		Dolare. P. G	02171763 to 02171787	25	25	00		Dolare		

Sub. Physics-II (22221105)

28/01/2023

12:00 to 02:00 pm

SLR-FZ-8

Block	Jr. Sup.	Name	Ansuserbook	No.	Total	Present	Absent	A.B. Return	Jr. Sup. Sign	Int. Sr. Sup. Sign	Ext. Sr. Sup. Sign
01	Mrs	Naikwade R.R	12 [02191650 to 02191661]		12	12	00	-	Res		
Sub - Microbiology-II (22221115) 28/01/2023					03:00 to 05:00 PM		FZ-9				
01	M.	Birkad A.B	50 [02171725 - 02171750]		26	26	00	-	Birkad AB		
Sub - Microbiology-IX (19201539) 28/01/2023					3:00 to 6:00 PM		SLR FZ-148				
01	Res.	Naikwade R.R	06 [22276645 to 22276650]		06	06	00	-	Res		
Sub - Chemistry IX (19201506) 28-1-23					3:00 to 6:00 PM		SLR FZ-142				
017	Jadhav.	S.S (22276602 to 22276617)			22	22	00	-	Jadhav.		
02	Dolare.	P.G (22276623 to 22276653)			22	22	00	FZ-142	Dolare.		

Sub-zoology (I) (22221122) Date = 30-1-2023

3:00 to 5:00 PM SLR FZ-11

Sr. No	Block	In. sup Name	Answer Book NO	Total	Present	Absent	A-B Refr	In-sup	Internal Super	External Super
1]	01	Mr. Jadhav. S.S	02171901 to 02171926	26	26	00	-			
			02171927 to 02171616	(old) 2	2	00	-	Jadhav	Refer	Refer

Sub-Microbiology (X) (19201540)

30-1-2023 3:00 to 6:00 PM SLR FZ = 158

2]	01	Dindore. P.A	22226701 to 22276706	06	06	00	-	Piyanka	Refer	Refer
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Sub-Chemistry (X) (19201507)

30-1-2023 3:00 to 6:00 PM SLR FZ - 152

3]	01	Dolare. P.G	(22276654 to 22276679)	22	22	00	-	Gotak	Refer	Refer
	02	Bikkad. A.B	(228042 to 208354)	22	22	00	-	Bikkad	Refer	Refer

Sub-Zoology-II (22221123) 31/01/2023

03:00 to 05:00 PM SLR = FZ-13 FZ-38

01	01	Shej. Jadhav S.S.	02171751 to 02171943 = 26 02171617 + 02171619 = 03	26	26	00	-	Jadhav	Refer	Refer
				03	02	01	FZ-38			

Sub-Microbiology-XI (19201541) (31/01/2023)

03:00 to 06:00 PM SLR = FZ-168

01	01	Shej. Dindore P.A Naikwade R.R	(22276707 to 22276707) 1	06	06	00	-	Shej	Refer	Refer
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Sub-Chemistry-XI (19201508) 31/01/2023 03:00 to 06:00 PM SLR = FZ-162

3]	01	Shej. Naikwade R.R.	(22276736 to 22276757)	22	22	00	00			
		Dindore P.A	31/01/2023 3:00 to 6:00	22	22	00	00	Piyanka	Refer	Refer
02	01	Shej. Bikkad A.B.	31/01/2023 3:00 to 6:00	22	22	00	00	Bikkad	Refer	Refer

external: Dr. Bajare J.S  
Internal: Dindore P.A.

19/06/2023

9:00 to 11:00 am

GoodLuck Page No.

CLR-Q.A.-135  
Chemistry-VII (19201407)

GoodLuck Page No.

Sr No.	Block No.	SUP Name	Answerbook No.	Total	Absent	present	A:B: Return	Tr sup Sing	Sr sup Sing	SUP Sing
1	01	Miss-Tambat R.B.	<del>02298768</del> to 02298772 = 4 02298800 to 02298776 = 25	25	00	25	-	Talwar	Priyanka	
2	02	Miss-Urade P.N.	02298763 to 02298772 = 11	11	00	11	-	Gotase	Priyanka	
12:00 to 2:00 pm										
3	01	Miss. Patil M.M	022987661 to 02298741	25	-	25	-	Padhan	Priyanka	
			02298738 to 02298756	9	-	4	-	Padhan		
English 12:00 to 2:00 PM	02	Miss. Bikkad A.B.	02298713 to 02298732	08	01	07	-	Bikkad	Priyanka	
			02298724	1	00	01	-	Bikkad		
<del>12:00 to 2:00 pm</del>										
4)	01	Urade P.N.	02298930 to 02298901	30	00	30	-	Gotase	Priyanka	
English										
5)	02	Bachute R.S.	2298938 to 0229894	17 16		17 16		Bachute	Priyanka	
3:00 to 00 PM										

20/06/2023

Ansbook no.

9 to 11	01	Urade P.N.	022989930 to 022989929
<b>Chemistry - III 22221208 QH-52</b>			
12 to 2	01	Bikkad A.B.	02298809 to 02298834 02298835 to 02298837
	02	Patil M.M.	02298852 to 02298844
3 to 6	01	Naikwadi R.R.	02298876 to 02298874
	02		02298853 to 02298863
	01	Bikkad A.B.	02298864 to 02298869

9:00 to 11:00

21/06/2023 3 1920/408 **Chemistry - VIII**

01	Urade P.N.	02298802 to 02298992
02	Bikkad A.B.	02298978 to 02298983

**Comp. Sci**

21:00 to 22:00	01	Tambat R.B.	02298973 to 02298976
	01	Tambat R.B.	22280198 to 22280169
00	02	Naikwade R.R.	22280156 to 22280165
00		<b>Microbiology - XIV</b>	22280155 to 22280150 22280166

**Microbiology - XIV**  
SLR-QA-239

SLR-QA-136

**Computer Science - VII**

Total	Absent	Present	A.B return	Jr-sup	Sr-sup	ext-sup
05	00	05	-	<del>Polare</del>	Priyanka	
25	00	25	-	BikkadAD	Priyanka	
04	00	04	-	BikkadAD	Priyanka	
08	01	07	1	Pradhani	Priyanka	
30	00	30	-	R	Priyanka	
11	11	-	-	BikkadAD	Priyanka	
06	00	06	-	BikkadAD	Priyanka	

**SLR Q.A-137**

30	00	30	-	Polare	Priyanka	
06	00	06	-	BikkadAD	Priyanka	

**SLR-Q.A-53**

10	01	09	-	Tambat R.B.	Priyanka	
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**Chemistry SLR-233**

**Chemistry - XIII**

30		30	-	Tambat R.B.	Priyanka	
10	0	10	-		Priyanka	
06	0	06	-	SLR-239	Priyanka	
01	0	01	-		Priyanka	

22/06/2023 9:to 11:00

Sr No	Block No	Sup Name	Answer book no.
5:00 to 6:00	01	Urade P.N.	02298960 to 02298964 Computer science-VII
12:00 to 2:00	01	Bikkad A.B.	02263348 to 02288950 PRN- Back - 02298951
2:00 to 3:00	02	Patil M.M.	02363316 to 0236340 chemistry-
3:00 to 6:00	01	Urade P.N.	22280 to 2228000
6:00 to 9:00	02	Bikkad A.B.	22080155 to 22280140 22280140 Microbiology - A.P. - 812 22280133 to 22280128
9:00 to 11:00	01	Urade P.N.	Physics-VII(19201439) 022989542 to 02298957
9:00 to 11:00	01	Bikkad A.B.	Computer Science-IV 02363301 - 02363309 02363310 to 02363312

Total	Absent	Present	A. Return	Jr. Super	Sr. Sup	Ex. Sup
05	00	05	-	Patil	Priyanka	
08	01	07	-	Bikkad	Priyanka	
06	00	06	-	Bikkad	Priyanka	
01	00	01	-	Bikkad	Priyanka	
25	00	25	-	Patil	Priyanka	
30	00	30	-	Patil	Priyanka	
10	00	10	-	Bikkad	Priyanka	
01	00	01	-	Bikkad	Priyanka	
06	00	06	-	Bikkad	Priyanka	
04	00	04	-	Patil	Priyanka	
10	01	09	-	Bikkad	Priyanka	
03	00	03	-			

Chemistry - XVI (19201617)

8:00 to 6:00	01	Tambat R.B.	22290122 - 22280048
	02	Patil M.M.	- 22280031 to 22280040 PRN - 2020032300063003
Microbiology - XVI			
			- 22280030 to 22280042

1/07/23

Physics - III (22221205) SLR-QA-56

12:00 to 2:00	01	Bikkad A.B.	02363201 - 02363209 02363210 - 02363212
			03

02/07/2023 9:00 to 11:00 AM

Physics - VIII (19201435) SL

00 to 00	01	Urade P.N.	02363213 - 02363216
		Block No-01 (Microbiology)	12:00 to 02:00 pm
		(III - 20221220)	
00 to 00	01	Bachute R.S.	02363217 to 02363229 02363240 to 02363254

SLR-QA-253

Total	Absent	AB-return	Sr. super	Present	Internal Sr.	External Sr.
30	-	-	<u>Palake</u>	30.	Priyanka	
Total-10	0	-	<u>Madhuri</u>	10	Priyanka	
01	0	-	<u>Madhuri</u>	01		
			SLR-QA-263			
06	0	-	<u>Madhuri</u>	06	Priyanka	

SLR-QA-142

			<u>Golare</u>			
04	00	00	<u>Golare</u>	04	Priyanka	
23	00	00	<u>Bachute</u>	23	Priyanka	
02	00	00				

2:00 to 5:00  
01 Bachute R.S. 22270801 to 22280025

03/07/23 (SLR-QA-58) Physics paper (TV) 22221206  
12:00 to 2:00 01 Bikkad A.B. 02363289 - 02863297 PRN No. 02363298 - 02363300

03/07/23 Chemistry (IX)  
3:00 to 6:00 PM  
Grade P.N. 22270811 - 22270827  
Microbiology - (IX)  
Grade P.N. 22270828 - 22270829

04/07/23 Microbiology - IV  
12 to 2 Patil M.M. 02363278 to 02363280  
chemistry/Micro 02363278 to 02363280  
3 to 6 Tambal R.B. 22270839 to 22270846 22270842 to 22270841

present	Absent	Total	A-B-return	Signature	internal	external
19	00	19	-	Jagupet		
				Bachute	Priyanka	
09	01	10	-	BikkadAD		
03	-	03	-	BikkadAD	Priyanka	
21	-	21	-	Gotare	Priyanka	
02	-	02	-	Gotare	Priyanka	
26	00	26	-	(22221221) Madhuni	Priyanka	
21	00	21	-	chemistry-X SLR-QA-179		
02	00	02	-	Micro-X SLR-QA-185		





पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ  
Punyashlok Ahilyadevi Holkar Solapur University

सोलापूर - पुणे राष्ट्रीय महामार्ग, केगांव, सोलापूर - ४१३ २५५ (महाराष्ट्र)  
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विस्तारित क्रमांक : १३०

● परीक्षा व मूल्यमापन मंडळ ● Board of Examinations and Evaluation ●

Ref. No. PAHSUS/EXAM/2023/ 1790

Date : 4 AUG 2023

परिपत्रक

प्रति,

मा. प्राचार्य / संचालक  
सर्व संलग्नित महाविद्यालये,  
पु. अ. हो. सोलापूर विद्यापीठ सोलापूर

विषय: विद्यार्थ्यांच्या उत्तरपत्रिकेचे गुणपडताळणी (Verification), गुणपडताळणीतील चुक (Counting Mistake) उत्तरपत्रिका व तपासणे (Not Assess), पुनर्मुल्यांकन (Revaluation) बाबत..

संदर्भ : सोविसो/परिक्षा/२०१७/३०१७, दि. २३/११/२०२७

महोदय,

उपरोक्त संदर्भिय परिपत्रकान्वये यापूर्वी विद्यार्थ्यांची गुणपडताळणी (Verification), गुणपडताळणीतील चुक (Counting Mistake), उत्तरपत्रिकेतील काही भाग तपासवयाचे राहून गेला असेल (Not Assess), व पुनर्मुल्यांकन (Revaluation) इत्यादी बाबत व तसेच त्याबाबतचे शुल्का बाबत सविस्तर आपणास अवगत करण्यात आले होते.

तथापि, विद्यार्थ्यांना सदरचे परिपत्रक अवगत नसल्याने विद्यार्थ्यांकडून विद्यापीठास चुकीचे अर्ज प्राप्त होत आहेत. त्या अनुषंगाने सोबत जोडलेल्या परिपत्रकान्वये विद्यार्थ्यांस मार्गदर्शन करून तसे अर्ज सादर करण्याच्या सूचना द्याव्यात. तसेच सदरील परिपत्रक आपल्या महाविद्यालयाच्या फलकावर दर्शनी भागावर लावण्यात यावे.

( डॉ. म. स. रिकडे )

प्र. संचालक

परीक्षा व मूल्यमापन मंडळ

उत्त- भारतीस्तव - मा. कुलगुरु कार्यालय,  
- पु. कुलगुरु कार्यालय,  
- कुलगुरु कार्यालय

सोलापूर विद्यापीठ

परीक्षा विभाग

सोलापूर पुणे राष्ट्रीय महामार्ग, केगाव,

सोलापूर - ४१३ २५५

ईपीएबीक्स - ०२१७-२७४४७६०/६१/६३/६६/७१/७२/७३/७४/७६/७९

फॅक्स नं. - ०२१७-२७४४७७०

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[sus.ac.in](http://sus.ac.in)

ई-मेल: [coe@sus.ac.in](mailto:coe@sus.ac.in)



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Solapur University

Examination Section

Solapur-Pune National Highway, Kegaon,

Solapur-413 255

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2744760/61/63/66/71/72/73/74/74/79

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संदर्भ क्र. सोविसो/परीक्षा/२०१७/३०१७

दि. २३/११/२०१७ 2017

परिपत्रक

प्रति,

मा. प्राचार्य / संचालक

सर्व संलग्नित महाविद्यालये,

सोलापूर विद्यापीठ सोलापूर

विषय : विद्यार्थ्यांच्या उत्तरपत्रिकेचे गुणपडताळणी (Verification), गुणपडताळणीतील चूक (Counting Mistake)

उत्तपत्रिका न तपासणे (Not Assess), पूनमूल्यांकन (Revaluation) बाबत...

महोदय,

उपरोक्त विषयास अनुसरून आपणास आदेशान्वये कळविण्यात येते की, उत्तरपत्रिकेची छायांकित प्रत प्राप्त झाल्यानंतर विद्यार्थी गुणपडताळणी (Verification), किंवा पूनमूल्यांकनासाठी (Revaluation) महाविद्यालयामार्फत अर्ज सादर करतात. गुणपडताळणी (Verification), गुणपडताळणीतील चूक (Counting Mistake), उत्तरपत्रिकेतील काही भाग तपासवयाचे राहून गेला असेल (Not Assess.) व पूनमूल्यांकन (Revaluation) या चार वेगवेगळ्या पध्दती आहेत.

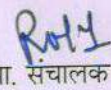
१) **गुणपडताळणी (Verification) :-** यामध्ये उत्तरपत्रिकेतील सर्व गुणांची पडताळणी केली जाते. तसेच उत्तरपत्रिका मूल्यमापन केली नसेल तर उत्तरपत्रिकेचे मूल्यमापन करून घेण्यात येते व निकाल प्रसिध्द केला जातो. गुणपडताळणीसाठी एका विषयास रु. ५०/- इतके शुल्क आकारण्यात येते. तसेच विद्यार्थी सर्व विषयासाठी गुणपडताळणी अर्ज सादर करू शकतात. परंतु गुणपडताळणीसाठी अर्ज केलेल्या विषयाची छायांकित प्रत विद्यार्थ्यांस घेता येणार नाही.

२) **गुणपडताळणीतील चूक (Counting Mistake) :-** उत्तरपत्रिकेची छायांकित प्रत प्राप्त झाल्यानंतर जर उत्तरपत्रिकेमध्ये प्राध्यापकांकडून गुण देण्याचे राहिल्यास, एकूण गुणांची बेरीज चूकीची असेल, उत्तरपत्रिकेतील प्रथम पानावर गुण न दिल्यास गुणपडताळणीतील चूक (Counting Mistake) यासाठी विद्यार्थ्यांनी विद्यापीठाकडे अर्ज सादर करावा. याकरीता शुल्क आकारण्यात येत नाही.

३) **उत्तरपत्रिका न तपासणे (Not Assess.) :-** उत्तरपत्रिकेची छायांकित प्रत प्राप्त झाल्यानंतर जर उत्तरपत्रिकेमध्ये एखादा प्रश्न तपासला नसेल, MCQ बरोबर असताना चूकीचे दिले असेल, तर विद्यार्थ्यांनी पूनमूल्यांकनासाठी अर्ज सादर न करता, Not assess साठी विद्यापीठाकडे अर्ज सादर करावा. याकरीता शुल्क आकारण्यात येत नाही.

४) **पूनमूल्यांकन (Revaluation) :-** विद्यार्थ्यांनी ज्या विषयाची छायांकित प्रत घेतली असेल त्याच विषयासाठी पूनमूल्यांकन अर्ज सादर करावे. अर्जासोबत गुणपत्रिकेची छायांकित प्रत जोडावे. विद्यार्थ्यांच्या उत्तरपत्रिकेतील पूनमूल्यांकनापूर्वीचे गुण झाकले (Hide) जातात. व पूनमूल्यांकनामध्ये विद्यार्थ्यांचे उत्तपत्रिका पूर्ण तपासली जाते. पूनमूल्यांकनासाठी एका विषयास रु. ५००/- इतके शुल्क आकारण्यात येते.

उपरोक्त बाब सर्व विद्यार्थी, पालक, शिक्षक, शिक्षकेतर कर्मचारी व परीक्षेशी संबंधित सर्व घटकाच्या निदर्शनास आणून दयावी.

  
मा. संचालक

परीक्षा व मूल्यमापन मंडळ

प्रत माहितीस्तव व पुढील कार्यवाहीस्तव

१) मा. कुलगुरुसो कार्यालय, प्रस्तुत विद्यापीठ सोलापूर.

२) मा. कुलसचिव कार्यालय, प्रस्तुत विद्यापीठ सोलापूर.

EXAM MAR-2021



# **PUNYASHLOK AHILYADEVII HOLKAR SOLAPUR UNIVERSITY, SOLAPUR**

## **EXAM OF 2021 SEMESTER PATTERN EXAMINATION**

### **FINAL PROGRAM OF B.Sc. SEMESTER – III TO VI MARCH-2021 EXAMINATION TO BE HELD IN JULY- 2021**

1. The examinations will be conducted for semesters III to VI.
2. The student will get one hour (1 hr) to solve the paper.
3. The theory examination will be conducted through online mode; which may be appeared/attempted from home/designated places.
4. The time slot given in the timetable shows 2 hrs for every day; however, the students will get 1 hr to solve each paper. If any student has to appear for two papers on the same day; in this case, he will solve two papers in 2 hours.

**B.Sc. Sem - III (New w.e.f. June 2020)**  
**(CBCS Pattern-2019)**

Day & Date	Sr. No	Subject Time: 10:00 a.m. to 12:00 p.m (Only 1 hr out of this slot)	Day & Date	Sr. No	Subject Time: 12:30 p.m. to 2:30 p.m (Only 1 hr out of this slot)
Friday 16/07/2021	101	CHEMISTRY Paper-V (19201305) Organic Chemistry	Friday 16/07/2021	102	COMPUTER SCIENCE Paper-V (19201307) Data Structure
Saturday 17/07/2021	103	CHEMISTRY Paper-VI (19201306) Inorganic Chemistry	Saturday 17/07/2021	104	COMPUTER SCIENCE Paper-VI (19201308) Design analysis and Algorithm
Sunday 18/07/2021	105	PHYSICS Paper-V (19201323) General Physics and Sound	Sunday 18/07/2021	106	BIO-CHEMISTRY Paper-I (19201303) Biomolecules
				107	PLANT PROTECTION Paper-I (19201325) Major crops and methods of integrated plant protection.
Monday 19/07/2021	108	PHYSICS Paper-VI (19201324) Electronics	Monday 19/07/2021	109	BIO-CHEMISTRY Paper-II (19201304) Biochemical Techniques
				110	PLANT PROTECTION Paper-II (19201326) Crop Diseases and their management
Thursday 22/07/2021	111	STATISTICS Paper-V (19201329) Probability Distributions - I	Thursday 22/07/2021	112	METEOROLOGY Paper-I (19201321) Climatology
				113	GEO-CHEMISTRY Paper-I (19201313) Introduction to Geochemistry
				114	ZOOLOGY Paper-V (19201331) Cell Biology
Friday 23/07/2021	116	STATISTICS Paper-VI (19201330) Statistical Methods	Friday 23/07/2021	115	METEOROLOGY Paper-II (19201322) General Meteorology
				116	GEO-CHEMISTRY Paper-II (19201314) Introduction to Solar System and Geo- Sphers
				117	ZOOLOGY Paper-VI (19201332) Principles of Ecology
Saturday 24/07/2021	118	MATHEMATICS Paper-V (19201319) Differential Calculus	Saturday 24/07/2021	119	BOTANY Paper-V (19201301) Plant Anatomy
Sunday 25/07/2021	120	MATHEMATICS Paper-VI (19201320) Laplace Transform	Sunday 25/07/2021	121	BOTANY Paper-VI (19201302) Plant metabolism
Monday 26/07/2021	122	ELECTRONICS Paper-V (19201309) Electronic Circuits	Monday 26/07/2021	123	PSYCHOLOGY Paper-V (19201327) Experimental Psychology
	124	GEOGRAPHY Paper-V (19201311) Climatology		125	GEOLOGY Paper-V (19201315) IGNEOUS PETROLOGY
				126	MICROBIOLOGY Paper-V (19201317) Bacterial Cytology and Physiology
Tuesday 27/07/2021	127	ELECTRONICS Paper-VI (19201310) Pulse & Switching Circuits	Tuesday 27/07/2021	128	PSYCHOLOGY Paper-VI (19201328) Social Psychology
	129	GEOGRAPHY Paper-VI (19201312) Geography of India		130	GEOLOGY Paper-VI (19201316) SEDIMENTARY AND METAMORPHIC PETROLOGY
				131	MICROBIOLOGY Paper-VI (19201318) Bacterial Genetics

**B.Sc. Sem - III (w.e.f. June 2017)**  
**(CBCS Pattern-2016) (Old up to March 2021)**

Day & Date	Sr. No	Subject Time: 10:00 a.m. to 12:00 p.m (Only 1 hr out of this slot)	Day & Date	Sr. No	Subject Time: 12:30 p.m. to 2:30 p.m (Only 1 hr out of this slot)
Friday 16/07/2021	101	CHEMISTRY Paper-V (201305) Organic Chemistry	Friday 16/07/2021	102	COMPUTER SCIENCE Paper-V (201317) Object Oriented Programming using C++
Saturday 17/07/2021	103	CHEMISTRY Paper-VI (201306) Inorganic Chemistry	Saturday 17/07/2021	104	COMPUTER SCIENCE Paper-VI (201318) Software Engineering
Sunday 18/07/2021	105	PHYSICS Paper-V (201303) General Physics, Heat and Sound	Sunday 18/07/2021	106	BIO-CHEMISTRY Paper-I (201331) Biomolecules
				107	PLANT PROTECTION Paper-I (201327) Major Crops and Methods of Integrated Plant protection
Monday 19/07/2021	108	PHYSICS Paper-VI (201304) Electronics	Monday 19/07/2021	109	BIO-CHEMISTRY Paper-II (201332) Biochemical Techniques
				110	PLANT PROTECTION Paper-II (201328) Crop Diseases and their management
Thursday 22/07/2021	111	STATISTICS Paper-V (201307) Continuous Probability Distributions	Thursday 22/07/2021	112	METEOROLOGY Paper-I (201323) Climatology
				113	GEO-CHEMISTRY Paper-I (201325) Introduction to Geochemistry
				114	ZOOLOGY Paper-V (201319) Animal Diversity – III
Friday 23/07/2021	116	STATISTICS Paper-VI (201308) Discrete Probability Distributions and Statistical Methods	Friday 23/07/2021	115	METEOROLOGY Paper-II (201324) General Meteorology
				116	GEO-CHEMISTRY Paper-II (201326) Introduction to Solar System and Geo-Sphers
				117	ZOOLOGY Paper-VI (201320) Cell Science, Genetics, Biological Chemistry and Economic Zoology
Saturday 24/07/2021	118	MATHEMATICS Paper-V (201313) Differential Calculus	Saturday 24/07/2021	119	BOTANY Paper-V (201301) Anatomy and Taxonomy of Angiosperms
Sunday 25/07/2021	120	MATHEMATICS Paper-VI (201314) Real Analysis	Sunday 25/07/2021	121	BOTANY Paper-VI (201302) Plant Ecology
Monday 26/07/2021	122	ELECTRONICS Paper-V (201315) Electronic Circuits	Monday 26/07/2021	123	PSYCHOLOGY Paper-V (201329) Experimental Psychology
	124	GEOGRAPHY Paper-V (201321) Biogeography - I		125	GEOLOGY Paper-V (201309) Optics and Mineralogy
				126	MICROBIOLOGY Paper-V (201311) Cytology and Physiology of Microorganisms
Tuesday 27/07/2021	127	ELECTRONICS Paper-VI (201316) Pulse & Switching Circuits	Tuesday 27/07/2021	128	PSYCHOLOGY Paper-VI (201330) Social Psychology
	129	GEOGRAPHY Paper-VI (201322) Soil Science		130	GEOLOGY Paper-VI (201310) Structural Geology
				131	MICROBIOLOGY Paper-VI (201312) Bacterial Genetics

<b>B.Sc. Sem – IV ( New w.e.f. Nov 2020)</b> <b>(CBCS Pattern-2019)</b>					
Day & Date	Sr. No	Subject Time: 3:00 p.m. to 5:00 p.m (Only 1 hr out of this slot)	Day & Date	Sr. No.	Subject Time: 3:00 p.m. to 5:00 p.m (Only 1 hr out of this slot)
Saturday 10/07/2021	132	CHEMISTRY Paper–VII (19201407) Physical Chemistry	Sunday 11/07/2021	133	COMPUTER SCIENCE Paper- VII (19201410) Software Engineering
Monday 12/07/2021	134	CHEMISTRY Paper–VIII (19201408) Analytical & Industrial Inorganic Chemistry	Tuesday 13/07/2021	135	COMPUTER SCIENCE Paper– VIII (19201411) Database Management System
Wednesday 14/07/2021	136	PHYSICS Paper-VII (19201434) Optics	Thursday 15/07/2021	137	BIO-CHEMISTRY Paper-III (19201404) NUTRITION AND METABOLISM
				138	PLANT PROTECTION Paper–VII (19201437) Introduction to weeds & non insect pests
Friday 16/07/2021	139	PHYSICS Paper-VIII (19201435) Modern Physics	Saturday 17/07/2021	140	BIO-CHEMISTRY Paper-IV (19201405) MOLECULAR BIOCHEMISTRY & DISEASES
				141	PLANT PROTECTION Paper–VIII (19201438) Insect pests and their Management.
Sunday 18/07/2021	142	STATISTICS Paper–VII (19201443) Probability Distributions - II	Monday 19/07/2021	143	METEOROLOGY Paper–III (19201431) Applied Climatology
				144	GEO-CHEMISTRY Paper-III (19201419) Principles of Geochemistry
				145	ZOOLOGY Paper–VII (19201446) Fundamentals of Biochemistry
Thursday 22/07/2021	146	STATISTICS Paper–VIII (19201444) Applied Statistics	Friday 23/07/2021	147	METEOROLOGY Paper–IV (19201432) Meteorological Instruments
				148	GEO-CHEMISTRY Paper-IV (19201420) Chemistry of the Earth
				149	ZOOLOGY Paper–VIII (19201447) ANIMAL PHYSIOLOGY: CONTROLLING AND COORDINATING SYSTEMS
Saturday 24/07/2021	150	MATHEMATICS Paper–VII (19201428) Differential Equations	Sunday 25/07/2021	151	BOTANY Paper–VII (19201401) Plant Physiology
Monday 26/07/2021	152	MATHEMATICS Paper–VIII (19201429) Abstract Algebra – I	Tuesday 27/07/2021	153	BOTANY Paper–VIII (19201402) EMBRYOLOGY OF ANGIOSPERMS
Wednesday 28/07/2021	154	GEOGRAPHY Paper–VII (19201416) Economic Geography	Thursday 29/07/2021	155	PSYCHOLOGY Paper–VII (19201440) Cognitive Psychology
	156	ELECTRONICS Paper–VII (19201413) Operational Amplifier and Applications		157	GEOLOGY Paper–VII (19201422) STRATIGRAPHY
				158	MICROBIOLOGY Paper–VII (19201425) Immunology & Medical Microbiology
Friday 30/07/2021	159	GEOGRAPHY Paper–VIII (19201417) Environmental Geography	Saturday 31/07/2021	160	PSYCHOLOGY Paper–VIII (19201441) Positive Psychology
	161	ELECTRONICS Paper–VIII (19201414) Digital Techniques and Microprocessor		162	GEOLOGY Paper–VIII (19201423) PALAEOLOGY
				163	MICROBIOLOGY Paper–VIII (19201426) Industrial Microbiology

<b>B.Sc. Sem-IV (New w.e.f. Nov 2021)</b> (CBCS Pattern-2019)			
<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>SUBJECT</b> <b>Time: 12:30 p.m. to 2:30 p.m</b> <b>(Only 1 hr out of this slot)</b>	
<b>Sunday</b> <b>08/08/2021</b>	425	<b>Environmental Studies (ENS)</b>	

<b>B.Sc. Sem-IV (w.e.f. Nov 2017)</b> (CBCS Pattern-2019) (Old up to OCT.2021)			
<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>SUBJECT</b> <b>Time: 12:30 p.m. to 2:30 p.m</b> <b>(Only 1 hr out of this slot)</b>	
<b>Sunday</b> <b>08/08/2021</b>	425	<b>Environmental Studies (2015)</b>	

<b>B.Sc. Sem – IV (w.e.f. Nov 2017)</b> <b>(CBCS Pattern-2016) (Old up to OCT.2021)</b>					
Day & Date	Sr. No	Subject Time: 3:00 p.m. to 5:00 p.m (Only 1 hr out of this slot)	Day & Date	Sr. No.	Subject Time: 3:00 p.m. to 5:00 p.m (Only 1 hr out of this slot)
Saturday 10/07/2021	132	CHEMISTRY Paper–VII(201407) Physical Chemistry	Sunday 11/07/2021	133	COMPUTER SCIENCE Paper- VII (201425) Data Structures
Monday 12/07/2021	134	CHEMISTRY Paper–VIII(201408) Analytical & Industrial Inorganic Chemistry	Tuesday 13/07/2021	135	COMPUTER SCIENCE Paper– VIII (201426) DBMS Using Oracle
Wednesday 14/07/2021	136	PHYSICS Paper-VII (201404) Optics	Thursday 15/07/2021	137	BIO-CHEMISTRY Paper-III (201446) Nutrition and Metabolism
				138	PLANT PROTECTION Paper–III (201440) Introduction to weeds & on insect Pests
Friday 16/07/2021	139	PHYSICS Paper-VIII (201405) Modern Physics	Saturday 17/07/2021	140	BIO-CHEMISTRY Paper-IV(201447) Molecular Biochemistry & Diseases
				141	PLANT PROTECTION Paper–IV (201441) Insect pests and their Management
Sunday 18/07/2021	142	STATISTICS Paper–VII (201410) Continuous Probability Distributions and Exact Sampling Distributions	Monday 19/07/2021	143	METEOROLOGY Paper–III (201434) Applied Climatology
				144	GEO-CHEMISTRY Paper-III (201437) Principles of Geochemistry
				145	ZOOLOGY Paper–VII (201428) Animal Diversity – IV
Thursday 22/07/2021	146	STATISTICS Paper–VIII(201411) Applied Statistics	Friday 23/07/2021	147	METEOROLOGY Paper–IV (201435) Meteorological Instruments
				148	GEO-CHEMISTRY Paper-IV (201438) Chemistry of the Earth
				149	ZOOLOGY Paper–VIII(201429) Histology & Physiology
Saturday 24/07/2021	150	MATHEMATICS Paper–VII(201419) Differential Equations	Sunday 25/07/2021	151	BOTANY Paper–VII (201401) Plant Physiology and Cytogenetics
Monday 26/07/2021	152	MATHEMATICS Paper–VIII(201420) Abstract Algebra – I	Tuesday 27/07/2021	153	BOTANY Paper–VIII (201402) Economic Botany
Wednesday 28/07/2021	154	GEOGRAPHY Paper–VII (201431) Biogeography – II	Thursday 29/07/2021	155	PSYCHOLOGY Paper–VII(201443) Cognitive Psychology
	156	ELECTRONICS Paper–VII (201422) Fundamentals of Operational Amplifier		157	GEOLOGY Paper–VII(201413) Igneous Petrology
				158	MICROBIOLOGY Paper–VII(201416) Immunology & Medical Microbiology
Friday 30/07/2021	159	GEOGRAPHY Paper–VIII (201432) Agricultural Geography	Saturday 31/07/2021	160	PSYCHOLOGY Paper–VIII(201444) Positive Psychology
	161	ELECTRONICS Paper–VIII (201423) Digital Techniques and Microprocessor		162	GEOLOGY Paper–VIII (201414) Sedimentary & Metamorphic Petrology
				163	MICROBIOLOGY Paper–VIII(201417) Industrial Microbiology-II



**B.Sc. Sem - V (w.e.f. June 2018)**  
**(CBCS Pattern-2016)**

<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 12:30 p.m. to 2:30 p.m</b> <b>(Only 1 hr out of this slot)</b>
<b>Saturday</b> <b>10/07/2021</b>	164	<b>English (Compulsory)</b> Literary Quest (201501)
		<b>Special Paper - IX</b>
<b>Sunday</b> <b>11/07/2021</b>	165	<b>Physics Paper- IX (201502)</b> Mathematical Physics & Statistical Physics
	166	<b>Chemistry Paper- IX (201506)</b> Physical Chemistry
	167	<b>Botany Paper- IX (201514)</b> Reproductive Biology of Angiosperms
	168	<b>Zoology Paper- IX (201518)</b> Non-chordates
	169	<b>Mathematics Paper- IX (201510)</b> Algebra-II
	170	<b>Statistics Paper- IX (201534)</b> Statistical Inference– I
	171	<b>Geology Paper- IX (201522)</b> Earth's Physics and Dynamics
	172	<b>Microbiology Paper- IX (201526)</b> Virology
	173	<b>Electronics Paper- IX (201530)</b> Linear Integrated Circuits and Applications
	174	<b>Computer Science Paper- IX (201538)</b> Visual Programming using C++
		<b>Special Paper – X</b>
<b>Monday</b> <b>12/07/2021</b>	175	<b>Physics Paper-X (201503)</b> Solid State Physics
	176	<b>Chemistry Paper- X (201507)</b> Inorganic Chemistry
	177	<b>Botany Paper- X (201515)</b> Genetics
	178	<b>Zoology Paper- X (201519)</b> Developmental Biology
	179	<b>Mathematics Paper- X (201511)</b> Complex Analysis
	180	<b>Statistics Paper- X (201535)</b> Probability Distributions
	181	<b>Geology Paper- X (201523)</b> Geomorphology
	182	<b>Microbiology Paper- X (201527)</b> Agricultural Microbiology
	183	<b>Electronics Paper- X (201531)</b> Fundamentals of Microcontroller
	184	<b>Computer Science Paper- X (201539)</b> Core Java

**B.Sc. Sem - V (w.e.f. June 2018) (Cont...)**  
**(CBCS Pattern-2016)**

<b>Day &amp; Date</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 12:30 p.m. to 2:30 p.m</b> <b>(Only 1 hr out of this slot)</b>
		<b>Special Paper - XI</b>
<b>Tuesday</b> <b>13/07/2021</b>	185	<b>Physics Paper XI (201504)</b> Classical Mechanics
	186	<b>Chemistry Paper XI (201508)</b> Organic Chemistry
	187	<b>Botany Paper XI (201516)</b> Plant Physiology
	188	<b>Zoology Paper XI (201520)</b> Comparative Anatomy of Chordates
	189	<b>Mathematics Paper XI (201512)</b> Integral Calculus
	190	<b>Statistics Paper XI (201536)</b> Sampling Techniques
	191	<b>Geology Paper XI (201524)</b> Stratigraphy of India Part – I
	192	<b>Microbiology Paper XI (201528)</b> Immunology
	193	<b>Electronics Paper XI (201532)</b> Sensors and Transducers
	194	<b>Computer Science Paper XI (201540)</b> Operating System
		<b>Special Paper - XII</b>
<b>Wednesday</b> <b>14/07/2021</b>	195	<b>Physics Paper XII</b> Nuclear Physics (201505)
		OR
	196	Energy Studies (201542)
	197	<b>Chemistry Paper XII</b> Analytical and Industrial Physical Chemistry (201509)
		OR
	198	Methodology and Materials of Industrial Importance(201543)
		<b>Botany Paper XII</b>
199	Plant Breeding (201517)	
	OR	
200	Nursery and Gardening(201545)	

		<b>Zoology Paper XII</b>
201		Biostatistics, Bioinformatics, Medical Zoology and Evolutionary Biology(201521)
		OR
202		Biodiversity & Conservation Biology(201546)
		<b>Mathematics Paper XII</b>
203		Partial Differential Equations (201513)
		OR
204		Mathematical Analysis (201544)
		<b>Statistics Paper XII</b>
205		Operations Research(201537)
		OR
206		Regression Analysis(201550)
		<b>Geology Paper XII</b>
207		Applied Geology Part – I(201525)
		OR
208		Crystallography and Optical Mineralogy(201547)
		<b>Microbiology Paper XII</b>
209		Industrial Microbiology- I(201529)
		OR
210		Industrial Microbiology- II(201548)
		<b>Electronics Paper XII</b>
211		Biomedical Electronics (201533)
		OR
212		Electronics Communication(201549)
		<b>Computer Science Paper XII</b>
213		Python (201541)
		OR
214		Software Testing (201551)

<b><u>B.Sc. Sem – VI (w.e.f. Nov. 2018)</u></b> <b>(CBCS Pattern-2016)</b>		
Day & Date	Sr. No.	Subject <b>Time: 10:00 a.m. to 12:00 p.m</b> <b>(Only 1 hrs out of this slot).</b>
<b>Saturday</b> <b>10/07/2021</b>	215	English (Compulsory) (201601) <b>Literary Quest</b>
		<b>Special Paper-XIII</b>
<b>Sunday</b> <b>11/07/2021</b>	215	<b>Physics Paper-XIII (201602)</b> Electrodynamics
	217	<b>Chemistry Paper-XIII (201607)</b> Physical Chemistry
	218	<b>Botany Paper- XIII (201617)</b> Molecular Biology
	219	<b>Zoology Paper- XIII (201622)</b> Physiology
	220	<b>Mathematics Paper- XIII (201612)</b> Metric Spaces
	221	<b>Statistics Paper- XIII (201642)</b> Statistical Inference–II
	222	<b>Geology Paper- XIII (201627)</b> Economic Geology and Prospecting
	223	<b>Microbiology Paper- XIII (201632)</b> Microbial Genetics
	224	<b>Electronics Paper- XIII (201637)</b> Power Electronics
	225	<b>Computer Science Paper- XIII (201647)</b> Web Technology
		<b>Special Paper -XIV</b>
<b>Monday</b> <b>12/07/2021</b>	226	Physics Paper-XIV Materials Science (201603)
	227	Chemistry Paper- XIV Inorganic Chemistry (201608)
	228	Botany Paper- XIV <b>Plant Biotechnology (201618)</b>
	229	Zoology Paper- XIV Economic Zoology (201623)
	230	Mathematics Paper- XIV Numerical Analysis (201613)
	231	Statistics Paper- XIV Probability Theory (201643)
	232	Geology Paper- XIV Environmental Geology (201628)
	233	Microbiology Paper- XIV Microbial Biochemistry (201633)
	234	Electronics Paper- XIV <b>Embedded System Design (201638)</b>
	235	Computer Science Paper- XIV <b>Advanced Java (201648)</b>

<b>B.Sc. Sem – VI (w.e.f. Nov. 2018)</b> <b>(CBCS Pattern-2016)</b>		
Day & Date	Sr. No	Subject <b>Time: 10:00 a.m. to 12:00 p.m</b> <b>(Only 1 hr out of this slot).</b>
		<b>Special Paper XV</b>
<b>Tuesday</b> <b>13/07/2021</b>	236	<b>Physics Paper-XV (201604)</b> Atomic, Molecular Physics and Quantum Mechanics
	237	<b>Chemistry Paper- XV (201609)</b> Organic Chemistry
	238	<b>Botany Paper- XV (201619)</b> Plant Metabolism
	239	<b>Zoology Paper- XV (201624)</b> Molecular Biology and Biotechnology
	240	<b>Mathematics Paper- XV (201614)</b> Programming in C
	241	<b>Statistics Paper- XV (201644)</b> Designs of Experiments
	242	<b>Geology Paper- XV (201629)</b> Stratigraphy of India Part – II
	243	<b>Microbiology Paper- XV (201634)</b> Environmental Microbiology
	244	<b>Electronics Paper- XV (201639)</b> Electronics Instrumentation
	245	<b>Computer Science Paper- XV (201649)</b> Data Communication and Networking – II
		<b>Special Paper XVI</b>
<b>Wednesday</b> <b>14/07/2021</b>	246	<b>Physics Paper-XVI</b> Electronics (201605) OR
	247	Instrumentation (201652)
	248	<b>Chemistry Paper- XVI</b> Analytical and Industrial Organic Chemistry (201610) OR
	249	Applied Organic Chemistry (201653)
	250	<b>Botany Paper- XVI</b> Biostatistics (201620) OR
	251	Horticultural practices and post harvest technology (201655)
	252	<b>Zoology Paper- XVI</b> Endocrinology, Environmental Biology and Toxicology (201625) OR
	253	Techniques in Biology (201656)
	254	<b>Mathematics Paper- XVI</b> Integral Transform (201615) OR
	255	Graph Theory and Combinatorics (201654)

256	<b>Statistics Paper- XVI</b> Quality Management and Reliability (201645) OR
257	Time Series Analysis (201660)
258	<b>Geology Paper- XVI (201657)</b> Applied Geology Part – II OR
259	Geochemistry (201630)
260	<b>Microbiology Paper- XVI</b> Clinical Microbiology-I (201635) OR
261	Clinical Microbiology-II (201658)
262	<b>Electronics Paper- XVI</b> Modern Communication Systems (201640) OR
263	Virtual Instrumentation (201659)
264	<b>Computer Science Paper- XVI (201650)</b> Angular JS OR
265	Linux Operating System (201661)

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Date:22/06/2021

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I/C Director

Board of Examinations and Evaluation