



# PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR

## EXAM OF 2023 SEMESTER PATTERN EXAMINATION

### FINAL PROGRAM OF M.SC.

- |                              |                          |                         |
|------------------------------|--------------------------|-------------------------|
| [1] ORGANIC CHEMISTRY        | [2] INDUSTRIAL CHEMISTRY | [3] POLYMER CHEMISTRY   |
| [4] PHYSICAL CHEMISTRY       | [5] ANALYTICAL CHEMISTRY | [6] INORGANIC CHEMISTRY |
| [7] PHARMACEUTICAL CHEMISTRY | [8] MEDICAL CHEMISTRY    |                         |

### SEM- I TO IV OCT/NOV-2022 EXAMINATION TO BE HELD IN JUNE.-2023

1. Student should see their Seat No. and Name in the Name list and mistakes if any should be communicate to this office immediately. All candidates are requested to confirm their Examination Seat No. as well as place of examination on the Notice Board of the University/College mentioned below at least two days before the date of Examination. The candidate should write correct Seat No. on each answer book. If candidate writes wrong Seat No. on answer Book the performance of such subject will not be considered.
2. Candidate are requested to be present at their respective places of the Examination **FIFTEEN MINUTES** before the time starting of the first paper and **TEN MINUTES** before the time starting of each subsequent paper. Candidates are forbidden to take any book or paper into the Examination Hall.
3. **Important Note:** Code Numbers given in the Bracket are Computer Code of respective Subjects, Students should mention these Code Numbers on Answer Books with Name of the Subject. Also write these Code Numbers on JSR (Junior Supervisor Report) and related documents.
4. All the Candidates are asked to follow the timely instructions given by University in accordance with the examinations methodology.
5. As per the Rights of Person with Disabilities Act-2016 the persons with Disabilities are given 20 minutes extra for one per hour for the Online/Offline exam. (केंद्र शासनाच्या अपंग व्यक्ती अधिकार अधिनियम २०१६ मधील तरतूदीनुसार अपंग विद्यार्थ्यांना ऑनलाईन व ऑफलाईन परीक्षेमध्ये सर्वसाधारण विद्यार्थ्यांपेक्षा १ तासाला कमीतकमी २० मिनीट इतका वेळ वाढवून देण्यास सर्वानुमते मान्यता देण्यात आली.)

Sr. No.	Center	College Abbreviation	Place
1	Solapur	PAHSUS	University Campus
2		SAN	Sangmeshwar College
3	Pandharpur	KBP	KarmveerBhauraoPatilMahavidhyalaya
4	Barshi	SMB	Shri ShivajiMahavidhyalaya
5	Sangola	SANG	Sangola College, Sangola

[1]OrganicChemistry	[2]IndustrialChemistry	[3]PolymerChemistry	
[4]PhysicalChemistry	[5]AnalyticalChemistry	[6]InorganicChemistry	
[7]PharmaceuticalChemistry[8]MedicalChemistry			
<b>Sem-I (New w.e.f. June2020)</b> (CBCSPattern-2020)			
Day&Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m.to 6:00p.m.
Wednesday 19/07/2023	HCT-101	1	InorganicChemistry –I(MSC05101)
Thursday 20/07/2023	HCT-102	2	OrganicChemistry–I(MSC05102)
Friday 21/07/2023	HCT-103	3	PhysicalChemistry –I(MSC05103)
Saturday 22/07/2023	SCT-104A SCT-104B	4 5	A) AnalyticalChemistry– I(MSC05108) <b>OR</b> B) Chemistry inLifeSciences(MSC05109)

[1]OrganicChemistry	[2]IndustrialChemistry	[3]PolymerChemistry	
[4]PhysicalChemistry	[5]AnalyticalChemistry	[6]InorganicChemistry	
[7]PharmaceuticalChemistry[8]MedicalChemistry			
<b>Sem-II(New w.e.f. Nov2020)</b> (CBCSPattern-2020)			
Day & Date	PaperNo.	Sr. No.	Subject Time: 11:00a.m.to 2:00 p.m.
Wednesday 19/07/2023	HCT-201	6	InorganicChemistry –II(MSC05201)
Friday 21/07/2023	OET	---	[Choose from list]
Sunday 23/07/2023	HCT-202	7	OrganicChemistry –II(MSC05202)
Tuesday 25/07/2023	SCT-203 SCT-204	8 9	A) PhysicalChemistry–II(MSC05206) <b>OR</b> B) Green Chemistry (MSC05207)

<b>Organic Chemistry Sem– III (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Monday 10/07/2023	HCT 301	10	Advanced Organic Chemistry – I (MSC07301)
Tuesday 11/07/2023	HCT302	11	Chemistry of Bioactive Heterocycles (MSC07302)
Wednesday 12/07/2023	SCT301	12	A) Photochemistry and Pericyclic Reactions (MSC07306)
	SCT302	13	OR B) Drug Development (MSC07307)
Friday 14/07/2023	OET	--	[Choose from list]

<b>Organic Chemistry Sem– IV (Neww.e.f. Nov 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m.to 6:00p.m.
Monday 10/07/2023	HCT 401	14	Advanced Organic Chemistry –II (MSC07401)
Wednesday 12/07/2023	HCT 402	15	Modern Organic Chemistry (MSC07402)
Friday 14/07/2023	HCT 403	16	Chemistry of Natural Products (MSC07403)
Sunday 16/07/2023	SCT 404A	17	A) Medicinal Chemistry (MSC07408)
	SCT 404B	18	OR B) Pharmaceutical Technology (MSC07409)

<b>Industrial Chemistry Sem– III (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Monday 10/07/2023	HCT 301	24	Unit operations of chemical Engineering (MSC06301)
Tuesday 11/07/2023	HCT302	25	Unit processes in Chemical technology (MSC06302)
Wednesday 12/07/2023	SCT301	26	Instrumental Analysis-I (MSC06307)
		27	OR Instrumental Analysis –II (MSC06308)
Friday 14/07/2023	OET	--	[Choose from list]

<b>Industrial Chemistry Sem– IV (Neww.e.f. Nov 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m.to 6:00p.m
Monday 10/07/2023	HCT 401	28	Chemical Industries (MSC06401)
Wednesday 12/07/2023	HCT 402	29	Pollution Monitoring and Control(MSC06402)
Friday 14/07/2023	HCT 403	30	Nanomaterial and its Characterization(MSC06403)
Sunday 16/07/2023	SCT 404A	31	A) Industrial Management and Material Balance (MSC06408)
	SCT 404B	32	OR B) Advanced Topics in Industrial Chemistry-II(MSC06409)

<b>Polymer Chemistry Sem – III(Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Monday 10/07/2023	HCT 301	38	Fundamentals of Feedstocks and Polymers (MSC05301)
Tuesday 11/07/2023	HCT302	39	Morphology and Physical Chemistry of Polymers (MSC05302)
Wednesday 12/07/2023	SCT301	40	A)Basic Concepts of Polymerization (MSC05306)
	SCT302	41	OR B)Natural and Synthetic Textile fibers and Resins (MSC05307)
Friday 14/07/2023	OET	--	[Choose from list]

<b>Polymer Chemistry Sem– IV (Neww.e.f. Nov 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m.to 6:00p.m
Monday 10/07/2023	HCT 401	42	Step-growth Polymers (MSC05401)
Wednesday 12/07/2023	HCT 402	43	Stereoregular Polymers and Modern Polymerisation Methods(MSC05402)
Friday 14/07/2023	HCT 403	44	Selected Topics in Polymers(MSC05403)
Sunday 16/07/2023	SCT 401	45	A) Processing Technology and Polymer Properties (MSC09408)
	SCT 402	46	OR B) Inorganic and Biopolymers(MSC09409)

<b>Physical Chemistry Sem – III (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Monday 10/07/2023	HCT3.1	52	Quantum Chemistry (MSC11301)
Tuesday 11/07/2023	HCT3.2	53	Electrochemistry (MSC11302)
Wednesday 12/07/2023	SCT3.1	54	Molecular Structure-I (MSC11306)
	SCT 3.2	55	OR Biophysical Chemistry (MSC11307)
Friday 14/07/2023	OET	--	[Choose from list]

<b>Physical Chemistry Sem – IV (Neww.e.f. Nov 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m.to 6:00p.m
Monday 10/07/2023	HCT 401	56	Statistical Mechanics and Irreversible Thermodynamics (MSC11401)
Wednesday 12/07/2023	HCT 402	57	Chemical Kinetics (MSC11402)
Friday 14/07/2023	HCT 403	58	Molecular Structure-II (MSC11403)
Sunday 16/07/2023	SCT 404A	59	A) Surface Chemistry (MSC11408)
	SCT 404B	60	OR B) Chemistry of Materials (MSC11409)

<b>Analytical Chemistry Sem– III (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00 p.m.to 2:00p.m
Monday 10/07/2023	HCT3.1	66	Advance Separation Techniques (MSC013301)
Tuesday 11/07/2023	HCT3.2	67	Instrumental Methods of Analysis- I (MSC013302)
Wednesday 12/07/2023	SCT3.1	68	Applied Analytical Chemistry (MSC013306)
	SCT3.2	69	OR Analysis of Commercial Materials (MSC013307)
Friday 14/07/2023	OET	--	[Choose from list]

<b>Analytical Chemistry Sem – IV (Neww.e.f. Nov 2021)</b> <b>(CBCS Pattern-2020)</b>			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 3:00 p.m. to 6:00p.m</b>
<b>Monday 10/07/2023</b>	HCT 401	70	Advanced Analytical Techniques (MSC013401)
<b>Wednesday 12/07/2023</b>	HCT 402	71	Instrumental Methods of Analysis-II (MSC013402)
<b>Friday 14/07/2023</b>	HCT 403	72	Biochemical and Food Analysis (MSC013403)
<b>Sunday 16/07/2023</b>	SCT-A	73	A) Environmental Chemical Analysis (MSC013408)
	SCT-B	74	OR B) Pharmaceutical Analysis (MSC013409)

<b>Inorganic Chemistry Sem – III (Neww.e.f. June 2021)</b> <b>(CBCS Pattern-2020)</b>			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 11:00a.m. to 2:00p.m</b>
<b>Monday 10/07/2023</b>	HCT3.1	80	Inorganic Chemical Spectroscopy (MSC14301)
<b>Tuesday 11/07/2023</b>	HCT3.2	81	Co-ordination Chemistry – I (MSC14302)
<b>Wednesday 12/07/2023</b>	SCT3.1	82	Nuclear Chemistry (MSC14306)
	SCT 3.2	83	OR Separation Science (MSC14307)
<b>Friday 14/07/2023</b>	OET	-	[Choose from list]

<b>Inorganic Chemistry Sem – IV (Neww.e.f. Nov 2021)</b> <b>(CBCS Pattern-2020)</b>			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 3:00 p.m. to 6:00p.m</b>
<b>Monday 10/07/2023</b>	HCT 401	84	Instrumental Techniques (MSC14401)
<b>Wednesday 12/07/2023</b>	HCT 402	85	Co-ordination Chemistry-II (MSC14402)
<b>Friday 14/07/2023</b>	HCT 403	86	Chemistry of Inorganic Materials (MSC14403)
<b>Sunday 16/07/2023</b>	SCT 404A	87	A) Applied Inorganic Chemistry (MSC14408)
	SCT 404B	88	OR Bioinorganic Chemistry (MSC14409)

<b>Pharmaceutical Chemistry Sem – III (New w.e.f. June 2021)</b> (CBCS Pattern-2020)			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 11:00a.m.to 2:00p.m</b>
<b>Monday</b> <b>10/07/2023</b>	HCT3.1	99	Advanced Organic Chemistry-I (MSC012301)
<b>Tuesday</b> <b>11/07/2023</b>	HCT3.2	100	Chemistry of Bioactive Heterocycles(MSC012302)
<b>Wednesday</b> <b>12/07/2023</b>	SCT3.1	101	A) Drug Development(MSC012306)
	SCT3.2	102	OR B) Biochemistry(MSC012307)
<b>Friday</b> <b>14/07/2023</b>	OET	-	[Choose from list]

<b>Pharmaceutical Chemistry Sem – IV (New w.e.f. June 2021)</b> (CBCS Pattern-2020)			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 3:00 p.m.to 6:00p.m</b>
<b>Monday</b> <b>10/07/2023</b>	HCT-401	103	Photochemistry and Pericyclic Reactions (MSC012401)
<b>Wednesday</b> <b>12/07/2023</b>	HCT-402	104	Advanced Organic Chemistry-II(MSC012402)
<b>Friday</b> <b>14/07/2023</b>	HCT-403	105	Pharmaceutical Dosage Forms(MSC012403)
<b>Sunday</b> <b>16/07/2023</b>	SCT4.1	106	A) Pharmaceutical Technology(MSC012408)
	SCT4.2	107	OR B) Industrial Pollution and Control(MSC012409)

<b>MEDICINL CHEMISTRY Sem – III (New w.e.f. June 2021)</b> <b>(CBCS Pattern-2020)</b>			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 11:00a.m.to 2:00p.m</b>
<b>Monday 10/07/2023</b>	HCT-3.1	108	Advanced Organic Chemistry – I (MSC08301)
<b>Tuesday 11/07/2023</b>	HCT-3.2	109	Chemistry of Bioactive Heterocycles(MSC08302)
<b>Wednesday 12/07/2023</b>	SCT3.1	110	A) Photochemistry and Pericyclic Reactions (MSC08306)
	SCT3.2	111	OR B) Drug Development(MSC08307)
<b>Friday 14/07/2023</b>	OET	-	[Choose from list]

<b>MEDICINL CHEMISTRY Sem – IV (New w.e.f. June 2021)</b> <b>(CBCS Pattern-2020)</b>			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 3:00 p.m.to 6:00p.m</b>
<b>Monday 10/07/2023</b>	HCT-4.1	112	Pharmaceutical Dosage Forms (MSC08401)
<b>Wednesday 12/07/2023</b>	HCT-4.2	113	Modern Organic Chemistry (MSC08402)
<b>Friday 14/07/2023</b>	HCT-4.3	114	Drug Regulatory Affairs (MSC08403)
<b>Sunday 16/07/2023</b>	SCT4.1	115	A) Medicinal Chemistry (MSC08408)
	SCT4.2	116	OR B) Pharmaceutical Technology (MSC08409)

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Date: 01/07/2023

Sd/-

**Director**

Board of Examinations and Evaluation