



PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR

EXAM OF 2020 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 MARCH 2020 EXAMINATION TO BE HELD IN OCT-2020

1. The Candidates at the above examination are requested to be present **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.
2. The Examination Programme is subject to change. If there is any change in the Examination Programme the University is not responsible for the loss or inconvenience caused to the candidates.
3. The external candidates are requested to see their examination seat number as well as place of the examination on the notice board of the University/College at least two days before the date of examination.
4. Cellular Phone, Pager, Scientific Calculator, Digital Diary or any means which can be used for unfair practice are not allowed in the Examination Hall.
5. **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.
6. The Time for the exam is one and half hour (1 ½) only.
7. The written examination will be conducted online/offline mode which will be held at home/desegated places.
8. All the student are here by informed that the time slot given in the time table shows 5 hrs for each day. But you will get 1 ½ hrs to solve the paper. If any student has two paper in one day that time he will be solving two papers within 5 hours.

| [1]Organic Chemistry | [2]Industrial Chemistry | [3]Polymer Chemistry | |
|---|-------------------------|------------------------|---|
| [4]Physical Chemistry | [5]Analytical Chemistry | [6]Inorganic Chemistry | |
| [7]Pharmaceutical Chemistry | | | |
| Sem – I (w.e.f. June 2016) (CBCSPattern-2016) | | | |
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 05/10/2020 | HCT-101 | 93 | Inorganic Chemistry – I (2171101) |
| Tuesday 06/10/2020 | HCT-102 | 94 | Organic Chemistry – I (2171102) |
| Wednesday 07/10/2020 | HCT-103 | 95 | Physical Chemistry – I (2171103) |
| Thursday 08/10/2020 | SCT-104A | 96 | A)Analytical Chemistry – I (2171104) |
| | SCT-104B | 97 | OR B)Chemistry in Life Sciences(2171105) |

| [1]Organic Chemistry | [2]Industrial Chemistry | [3]Polymer Chemistry | |
|--|-------------------------|------------------------|---|
| [4]Physical Chemistry | [5]Analytical Chemistry | [6]Inorganic Chemistry | |
| [7]Pharmaceutical Chemistry | | | |
| Sem – II (w.e.f. Nov 2016) (CBCS Pattern-2016) | | | |
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 05/10/2020 | HCT-201 | 98 | Inorganic Chemistry – II (2171201) |
| Tuesday 06/10/2020 | HCT-202 | 99 | Organic Chemistry – II (2171202) |
| Wednesday 07/10/2020 | SCT-203A | 100 | A) Physical Chemistry – II (2171203) |
| | SCT-203B | 101 | OR B) Green Chemistry (2171204) |
| Saturday 17/10/2020 | OET | --- | [Choose from list] |

| Organic Chemistry Sem– III (w.e.f. June 2017) (CBCS Pattern-2016) | | | |
|---|-----------|---------|---|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 05/10/2020 | HCT 301 | 102 | Advanced Organic Chemistry-I(2171301) |
| Tuesday 06/10/2020 | HCT302 | 103 | Advanced Spectroscopic Methods(2171302) |
| Wednesday 07/10/2020 | SCT301 | 104 | A) Photochemistry and Pericyclic Reactions (2171305) |
| | SCT302 | 105 | OR B) Medicinal Chemistry-II(2171306) |
| Sunday 18/10/2020 | OET | -- | [Choose from list] |

| Organic Chemistry Sem– IV (w.e.f. Nov 2017) (CBCS Pattern-2017) | | | |
|---|-----------|---------|---|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 12/10/2020 | HCT 401 | 106 | Advanced Organic Chemistry-II (21714-01) |
| Tuesday 13/10/2020 | HCT 402 | 107 | Stereochemistry (21714-02) |
| Wednesday 14/10/2020 | HCT 403 | 108 | Chemistry of Natural Products (21714-03) |
| Thursday 15/10/2020 | SCT 404A | 109 | A) Applied Organic Chemistry (21714-07) |
| | SCT 404B | 110 | OR B) Chemical Industries (21714-08) |

| Industrial Chemistry Sem– III (w.e.f. June 2017) (CBCS Pattern-2017) | | | |
|--|-----------|---------|---|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 05/10/2020 | HCT 301 | 111 | Unit operations of chemical Engineering (2173301) |
| Tuesday 06/10/2020 | HCT302 | 112 | Unit processes in Chemical technology (2173302) |
| Wednesday 07/10/2020 | SCT301 | 113 | Instrumental Analysis (2173306) |
| Sunday 18/10/2020 | OET | -- | [Choose from list] |

| Industrial Chemistry Sem– IV (w.e.f. Nov 2017) (CBCS Pattern-2016) | | | |
|--|-----------|---------|---|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 12/10/2020 | HCT 401 | 114 | Chemical Industries (21734-01) |
| Tuesday 13/10/2020 | HCT 402 | 115 | Pollution Monitoring and Control (21734-02) |
| Wednesday 14/10/2020 | HCT 403 | 116 | Nanotechnology and Instrumental Analysis (21734-03) |
| Thursday 15/10/2020 | SCT 404A | 117 | A) Industrial Management and Material Balance (21734-08) OR B) Chemical Industries-II (21734-09) |
| | SCT 404B | 118 | |

| Polymer Chemistry Sem – III (w.e.f. June 2017) (CBCS Pattern-2016) | | | |
|--|-----------|---------|--|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 05/10/2020 | HCT 301 | 119 | Fundamentals of Feed stocks and Polymers (2172301) |
| Tuesday 06/10/2020 | HCT302 | 120 | Morphology and Physical Chemistry of Polymers (2172302) |
| Wednesday 07/10/2020 | SCT301 | 121 | A) Basic Concepts of Polymerization (2172306) OR B) Natural and Synthetic Textile fibers and Resins (2172307) |
| | SCT302 | 122 | |
| Sunday 18/10/2020 | OET | -- | [Choose from list] |

| Polymer Chemistry Sem– IV (w.e.f. Nov 2017) (CBCS Pattern-2016) | | | |
|---|-----------|---------|--|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 12/10/2020 | HCT 401 | 123 | Step-growth of Polymers (21724-01) |
| Tuesday 13/10/2020 | HCT 402 | 124 | Stereoregular Polymers and Modern Polymerisation Methods(21724-02) |
| Wednesday 14/10/2020 | HCT 403 | 125 | Selected Topics in Polymers (21724-03) |
| Thursday 15/10/2020 | SCT 401 | 126 | A) Processing Technology and Polymer Properties(21724-08) OR B) Inorganic and Biopolymers(21724-09) |
| | SCT 402 | 127 | |

| Physical Chemistry Sem – III (w.e.f. June 2017) (CBCS Pattern-2016) | | | |
|---|-----------|---------|---|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 05/10/2020 | HCT3.1 | 128 | Quantum Chemistry (2175301) |
| Tuesday 06/10/2020 | HCT3.2 | 129 | Electrochemistry (2175302) |
| Wednesday 07/10/2020 | SCT3.1 | 130 | Molecular Structure – I (2175305) |
| Sunday 18/10/2020 | OET | -- | [Choose from list] |

| Physical Chemistry Sem – IV (w.e.f. Nov 2017) (CBCS Pattern-2017) | | | |
|---|-----------|---------|---|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 12/10/2020 | HCT 401 | 131 | Statistical Mechanics and Irreversible Thermodynamics(21754-01) |
| Tuesday 13/10/2020 | HCT 402 | 132 | Chemical Kinetics(21754-02) |
| Wednesday 14/10/2020 | HCT 403 | 133 | Molecular Structure – II (21754-03) |
| Thursday 15/10/2020 | SCT 404A | 134 | A) Surface Chemistry(21754-07) |
| | SCT 404B | 135 | OR B) Chemistry of Materials (21754-08) |

| Analytical Chemistry Sem– III (w.e.f. June 2017) (CBCS Pattern-2017) | | | |
|--|-----------|---------|---|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 05/10/2020 | HCT3.1 | 136 | Advance Separation Techniques (2176301) |
| Tuesday 06/10/2020 | HCT3.2 | 137 | Instrumental Methods of Analysis- I (2176302) |
| Wednesday 07/10/2020 | SCT3.1 | 138 | Applied Analytical Chemistry (2176306) |
| Sunday 18/10/2020 | OET | -- | [Choose from list] |

| Analytical Chemistry Sem – IV(w.e.f. Nov 2017) (CBCS Pattern-2016) | | | |
|--|-----------|---------|---|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 12/10/2020 | HCT 401 | 139 | Advanced Analytical Techniques (21764-01) |
| Tuesday 13/10/2020 | HCT 402 | 140 | Instrumental Methods of Analysis- II(21764-02) |
| Wednesday 14/10/2020 | HCT 403 | 141 | Bio-chemical and food analysis (21764-03) |
| Thursday 15/10/2020 | SCT-A | 142 | A) Environmental Chemical Analysis (21764-09) OR |
| | SCT-B | 143 | B) Pharmaceutical Analysis (21764-10) |

| Inorganic Chemistry Sem – III (w.e.f. June 2017) (CBCS Pattern-2016) | | | |
|--|-----------|---------|---|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 05/10/2020 | HCT3.1 | 144 | Inorganic Chemical Spectroscopy (2174301) |
| Tuesday 06/10/2020 | HCT3.2 | 145 | Co-ordination Chemistry – I (2174302) |
| Wednesday 07/10/2020 | SCT3.1 | 146 | Nuclear Chemistry (2174305) |
| Sunday 18/10/2020 | OET | - | [Choose from list] |

| Inorganic Chemistry Sem – IV(w.e.f. Nov 2017) (CBCS Pattern-2016) | | | |
|---|-------------|---------|---|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 12/10/2020 | HCT 401 | 147 | Instrumental Techniques (21744-01) |
| Tuesday 13/10/2020 | HCT 402 | 148 | Co-ordination Chemistry-II(21744-02) |
| Wednesday 14/10/2020 | HCT 403 | 149 | Chemistry of Inorganic Materials (21744-03) |
| Thursday 15/10/2020 | SCT 404A | 150 | A) Applied Inorganic Chemistry (21744-07) OR |
| | SCT 404B | 151 | B) Bioinorganic Chemistry (21744-08) |

| PHARMACEUTICAL Chemistry Sem – III (New w.e.f. June 2019) (CBCS Pattern-2019) | | | |
|---|-----------|---------|---|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 05/10/2020 | HCT3.1 | 152 | BASICS IN PHARMACEUTICAL CHEMISTRY (21728301) |
| Tuesday 06/10/2020 | HCT3.2 | 153 | ORGANIC SPECTROSCOPY (21728302) |
| Wednesday 07/10/2020 | SCT3.1 | 154 | A) BIOACTIVE HETEROCYCLES AND NATURAL PRODUCTS (21728306) OR |
| | SCT3.2 | 155 | B) BIOCHEMISTRY, BIOMOLECULES AND BIOINORGANIC CHEMISTRY (21728307) |
| Sunday 18/10/2020 | OET | - | [Choose from list] |

| PHARMACEUTICAL Chemistry Sem – IV (New w.e.f. June 2019) (CBCS Pattern-2019) | | | |
|--|-----------|---------|---|
| Day & Date | Paper No. | Sr. No. | Subject TIME: 11:00 a.m. to 4:00 p.m. (Only 1 ½ hrs out of this slot) |
| Monday 12/10/2020 | HCT-401 | 156 | Stereochemistry, Photochemistry and Pericyclic reactions (21728401) |
| Tuesday 13/10/2020 | HCT-402 | 157 | Drug Discovery and Dosage Forms (21728402) |
| Wednesday 14/10/2020 | HCT-403 | 158 | Medicinal Chemistry (21728403) |
| Thursday 15/10/2020 | SCT4.1 | 159 | A) Advanced Organic Synthesis (21728407) OR |
| | SCT4.2 | 160 | B) Modern Organic Chemistry (21728408) |

Please visit - <http://su.digitaluniversity.ac>

Ref No.: PAHSUS/EXAM/TIME-TABLE/2020/778

Date : 19/09/2020

Sd/-
I/C Director
Board of Examinations and Evaluation