

SAVITRIBAI PHULE PUNE UNIVERSITY



Examination Circular No. 183 of 2014

PROGRAMME OF M.SC. CHEMISTRY SEM. I TO IV (2008 Pattern) & CREDIT SYSTEM (2013 Pattern) EXAMINATIONS, NOVEMBER, 2014

INSTRUCTIONS FOR CANDIDATES

- 1. Candidates are required to be present at the examination Centre fifteen minutes before the time fixed for the first paper and ten minutes before the time of each subsequent paper.**
- 2. Candidates are forbidden from taking any material into the examination hall, that can be used for malpractice at the time of examination.**
- 3. Candidates are requested to see the Notice-Board at their place of examination regularly for changes if any, that may be notified later in the programme.**
- 4. No request for any special concession such as change in time or any day fixed for the University examination, on religious or any other ground shall be granted.**
- 5. The Use of non-programmable Calculator is permitted.**
- 6. The Examination of Candidates of University Post-Graduate Dept. having credit system will be held at their Respective Departments.**

The written Examination will be conducted in the following order :

M.Sc. CHEMISTRY

DAY & DATE	SEMESTER – II TIME: 10:30 A.M. TO 1:30 P.M.
Tuesday, 25.11.2014	CH-210 : Physical Chemistry - II (2008 Pattern) CHP-210: Fundamentals of Physical Chemistry II (2013 Pattern)
Wednesday, 26.11.2014	CH-230 : Inorganic Chemistry- II (2008 Pattern) CHO-230: Coordination and Bioinorganic Chemistry (2013 Pattern)
Thursday, 27.11.2014	CH-250 : Synthetic Organic Chemistry & Spectroscopy (2008 Pattern) CHO-250: Synthetic Organic Chemistry and Spectroscopy (2013 Pattern)
Friday, 28.11.2014	CHA-290: General Chemistry
	SEMESTER – I TIME: 10:30 A.M. TO 1:30 P.M.
Saturday, 29.11.2014	CH-110 :- Physical Chemistry –I (2008 Pattern) CHP-110: Fundamentals of Physical Chemistry(2013 Pattern)
Monday, 01.12.2014	CH-130 : Inorganic Chemistry-I (2008 Pattern) CHI-130: Molecular Symmetry & Chemistry of p-block elements (2013 Pattern)
Wednesday, 03.12.2014	CH-150 : Org. Reaction Mecha & Stereochem (2008 Pattern) CHO-150: Basic organic chemistry (2013 Pattern)
Thursday, 04.12.2014	CHA-190: Safety in Chemical Laboratory and Good Laboratory Practices (2013 Patt.)

PHYSICAL CHEMISTRY

DAY & DATE	SEMESTER – IV (2008 Pattern) TIME: 2:30 P.M. TO 5:30 P.M.
Tuesday, 25.11.2014	CH-410 : Molecular Structure & Spectroscopy
Wednesday, 26.11.2014	CH-411 : Surface & Electrochemistry
Thursday, 27.11.2014	OPTIONAL COURSES CH-414 : Biophysical Chemistry & Related Techniques CH-415 : Special Topics in Nuclear Radiation Chem. CH-416 : Special Topics in Physical Chemistry(Old)
	SEMESTER – III TIME: 2:30 P.M. TO 5:30 P.M.
Saturday, 29.11.2014	CH-310 :Quantum Chemistry & Solid State chemistry (2008 Pattern) CHP-310 : Quantum and Solid State Chemistry (2013 Pattern)
Monday, 01.12.2014	CH-311 : Nuclear & Radiation Chemistry(2008 Pattern) CHP-311: Nuclear & Radiation and Photo-Chemistry (2013 Pattern)
Tuesday, 02.12.2014	CH-312 : Advanced Instrumental Methods of Analysis (2008 Pattern) CHP-312 :Physicochemical Methods of Analysis (2013 Pattern)
Wednesday, 03.12.2014	OPTIONAL COURSES (2008 Pattern) CH-314 : Polymer Chemistry CH-315 : Special Topics in Physical Chemistry CH-316 : Environmental Chemistry (Old) OPTIONAL COURSES (2013 Pattern) CHP-313 : Polymer Chemistry CHP-314 :Modern Trends in Physical Chemistry

INORGANIC CHEMISTRY

DAY & DATE	SEMESTER – IV (2008 Pattern) TIME: 2:30 P.M. TO 5:30 P.M.
Tuesday, 25.11.2014	CH-430 : Inorganic Solids & Heterogeneous Catalysis
Wednesday, 26.11.2014	CH-431 : Materials Science
Thursday, 27.11.2014	CH-445: Inorganic Applications in Industry Biotech & Envi.Chem.
DAY & DATE	SEMESTER – III TIME: 2:30 P.M. TO 5:30 P.M.
Saturday, 29.11.2014	CH-330: Coordination Chemistry Magnetism Reaction Mechanism(2008 Pattern) CHI-326: Organometallic Chemistry & Homogeneous catalysis(2013 Pattern)
Monday, 01.12.2014	CH-331 : Structural Methods in Inorganic Chemistry (2008 Pattern) CHP-330: Inorganic Reaction Mechanism, photochemistry and Magnetic Properties of Coordination Compounds (2013 Pattern)
Tuesday, 02.12.2014	CH-332 : Bioinorganic Chemistry Inorganic Elem in Chem. of life(2008 Pattern) CH-331 : Physical Methods in Inorganic Chemistry (2013 Pattern)
Wednesday, 03.12.2014	CH-326 : Organometallic Compounds of Transition Metals & Homogeneous Catalysis (2008 Pattern) CHI-332 : Bioinorganic & Inorganic medicinal chemistry (2013 Pattern)

ORGANIC CHEMISTRY

DAY & DATE	SEMESTER – IV (2008 Pattern) TIME: 2:30 P.M. TO 5:30 P.M.
Tuesday, 25.11.2014	CH-450 : Chemistry of Natural Products
Wednesday, 26.11.2014	CH-451 : Synthetic Methods in Organic Chemistry
Thursday, 27.11.2014	CH-452: Heterocyclic Chem.Chiron Approach & Medicinal Chemistry
DAY & DATE	SEMESTER – III TIME: 2:30 P.M. TO 5:30 P.M.
Saturday, 29.11.2014	CH-350 : Organic Reaction Mechanism (2008 Pattern) CHO-350 : Organic Reaction Mechanism (2013 Pattern)
Monday, 01.12.2014	CH-351 : Spectroscopic Methods in Structure Determination (2008 Pattern) CHO-351 : Spectroscopic Methods in Structure Determination (2013 Pattern)
Tuesday, 02.12.2014	CH-352 : Organic Stereochemistry (2008 Pattern) CHO-352 : Organic Stereochemistry (2013 Pattern)
Wednesday, 03.12.2014	CH-353 : Pericyclic Reactions free Radicals & Photo Chem.(2008 Pattern) CHO-353 : Pericyclic Reactions, Photochemistry and Heterocyclic Chemistry (2013 Pattern)

ANALYTICAL CHEMISTRY

DAY & DATE	SEMESTER – IV (2008 Pattern) TIME : 2:30 P.M. TO 5:30 P.M.
Tuesday, 25.11.2014	CH-481 : Bionalytical & Forensic Science
Wednesday, 26.11.2014	CH-490 : Analytical Spectroscopy
Thursday, 27.11.2014	CH-491 : Polymer Technology
DAY & DATE	SEMESTER – III TIME : 2:30 P.M. TO 5:30 P.M
Saturday, 29.11.2014	CH-390 : Electroanalytical and Current Analytical Methods in Industries (2008 Pattern) CHA-390 : Electro Analytical and Radio Analytical methods of Analysis (2013 Pattern)
Monday, 01.12.2014	CH-391 : Environmental & Analysis of Industrial Materials (2008 Pattern) CHA-391 : Pharmaceutical Analysis (2013 Pattern)
Tuesday, 02.12.2014	CH-392 : Advanced Analytical Techniques (2008 Pattern) CHA-392 : Advanced Analytical Techniques (2013 Pattern)
Wednesday, 03.12.2014	OPTIONAL COURSES (2008 Pattern) CH-380 : Pharmaceutical Analysis CH-381 : Medicinal Chemistry CHA-380 : Any Two Sections from following (2013 Pattern) I- Analytical Method development & validation II- Geochemical and alloy Analysis III- Laboratory Automation and Sensor Based Techniques

BIO- CHEMISTRY

DAY & DATE	SEMESTER – II TIME: 10:30 A.M. TO 1:30 P.M.
Tuesday, 25.11.2014	BCH 270 : Bioenergetics and Metabolism (2008 & 2010 Pattern) BCH -270 Bioenergetics and Metabolism (2013 Pattern)
Wednesday, 26.11.2014	BCH- 271: Biophysical Techniques (2008 Pattern) BCH-271 : Techniques for Characterization of Biomolecules (2010 Pattern) BCH -271 Techniques in characterization of biomolecules(2013 Pattern)
Thursday, 27.11.2014	BCH- 273 : Membrane Biochemistry & Nucleic acid (2008 Pattern) BCH-273 : Membrane Biochemistry and Genetics (2010 Pattern)
Friday, 28.11.2014	BCH -272 Biostatistics, Computer and Bioinformatics(2013 Pattern)
DAY & DATE	SEMESTER – I TIME: 10:30 A.M. TO 1:30 P.M.
Saturday, 29.11.2014	BCH-170 : Biomolecules (2008 & 2010 Pattern) BCH -170 :Biomolecules (2013 Pattern)
Monday, 01.12.2014	BCH- 171 : Enzymology and Biophysiological Tech. (2008 & 2010 Pattern) BCH -171 : Enzymology and Biophysical Techniques (2013 Pattern)
Tuesday, 02.12.2014	BCH- 172 : Cell Biochemistry (2008 Pattern) BCH-172 : Microbiology and Cell Biochemistry of Eukaryotes (2010 Pattern) BCH-172 :Microbiology and Cell Biology (2013 Pattern)
DAY & DATE	SEMESTER – IV (2008 Pattern) TIME: 2:30 P.M. TO 5:30 P.M.
Tuesday, 25.11.2014	BCH -470 : Biochemical Endocrinology and Tissue Culture(2008 Pattern) BCH- 470 : Biochemical Endocrinology and Plant Biochemistry(2010 Pattern)
Wednesday, 26.11.2014	BCH-471 : Fermentation and Enzyme Technology and Food Techn. (2008 Pattern) BCH-471 : Fermentation Technology and Food Technology (2010 Pattern) BCH-474 : Genomics and Biotechnology (Optional Course) (2008 Pattern)
Thursday, 27.11.2014	BCH- 472 : Genetic Engineering (2008 Pattern & 2010 Pattern)
Friday, 28.11.2014	<u>Optional Courses- Any One (2010 Pattern)</u> BCH-473 : Nutrition and Clinical Nutrition BCH-474 : Developmental Biology and Molecular Evolution
DAY & DATE	SEMESTER – III TIME: 2:30 P.M. TO 5:30 P.M.
Saturday, 29.11.2014	BCH 370 : Molecular Biology (2008 & 2010 Pattern) BCH-370 : Molecular Biology (2013 Pattern)
Monday, 01.12.2014	BCH 371: Medical Biochemistry and Immunology (2008 & 2010 Patt.) BCH-371: Medical Biochemistry and Immunology
Tuesday, 02.12.2014	BCH -372: Signal transduction pathways (2008 Pattern) BCH- 372 : Neurochemistry(2010 Pattern) BCH-372 : Neurochemistry and Biochemistry of Specialized Tissues(2013 Patt.)
Wednesday, 03.12.2014	BCH-373 : Biochemical Toxicology (2010 Pattern) BCH-373 : Toxicology and plant Biochemistry (2013 Pattern) <u>Optional Courses</u> BCH-373 : Recent trends in Biochemistry and Toxicology (2008 Pattern) BCH 374 : Developmental Biology and Molecular Evolution (2008 Pattern) BCH-375 : Nutrition and Clinical Nutrition (2008 Pattern)

1. The Practical examination will be conducted before theory examination. Due notice will be given by the examiners about the place, date and time of the Practical examination on the Notice Board. Candidates are directed to be present at the time & place of their practical examination.
2. The last examination of the **Sem. I (2008 Pattern)** will be held in October 2014.

Ganeshkhind,
Pune-411 007
Ref. No. XCT/Sci/ 1022
Date :27.10.2014.

Dr.V.B.Gaikwad
I/C Controller of Examinations