



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

M.Sc. 4<sup>TH</sup> SEMESTER (CBS) EXAMINATION OF WINTER, 2018

-: PROGRAMME (WRITTEN) :-

TIME : 2.00 P.M. TO 5.00 P.M.

Sr. No	Subject	Day Date Paper	Wednesday 03-10-2018 I	Friday 05-10-2018 II	Monday 08-10-2018 III	Wednesday 10-10-2018 IV
1.	Physics	Solid State Physics – II		Nuclear and Particle Physics – II	Optional Paper (Any One) 1. Materials Science – II 2. Atomic and Molecular Physics (Spectroscopy) – II 3. Applied Electronics – II 4. X-rays – II 5. Nanoscience and Nanotechnology – II	Elective (Any One) 1. Nanoscience 2. Nonlinear Dynamics with application to Physics and other Science 3. Condensed Matter Physics 4. Electroacoustics 5. Spectroscopy Elective – II 6. Lasers Fibre Optics and Applications Elective – II
2.	Chemistry	Spectroscopy		Special I – Inorganic / Organic / Physical / Analytical	Special II - Inorganic / Organic / Physical / Analytical	Elective – Applied Analytical / Nuclear / Environmental / Polymer / Medicinal
3.	Bio-Chemistry	Advanced Clinical Biochemistry		Cell Biology and Cellular Biochemistry	Nutrition and Biochemistry of Movement	Biostatistics, Research Methodology, Technical Writing, Computers and Bioinformatics
4.	Microbiology	Molecular Biology and Genetics		Virology	Drugs, Vaccines and Delivery Systems	Recombinant DNA Technology
5.	Botany	Plant Conservation, IPR and Ethnobotany		PRU, Biosafety, Bioethics, Biostat. & Pl. Breed	Special Paper – I	Special Paper – II
6.	Zoology	Biotechniques, Biostatistics and Ethology		Toxicology and Bioinformatics	<b>Special Group – Paper – I</b> Entomology Fish and Fisheries Mammalian Reproductive Physiology Animal Physiology Cell Biology Fresh Water Zoology Aquaculture Environmental Biology Sericulture	<b>Special Group – Paper – II</b> Entomology Fish and Fisheries Mammalian Reproductive Physiology Animal Physiology Cell Biology Fresh Water Zoology Aquaculture Environmental Biology Sericulture
7.	Geology	Ore Geology and Ore Microscopy (3+1)		Indian Mineral Deposits and Mineral Economics (3+1)	Mining Geology and Mineral Exploration (1+3)	Optional (Any One) 1. Exploration Geochemistry (4) 2. Applied and Industrial Micropaleontology (4) 3. Petroleum Exploration (4) 4. Quaternary Geology and Limnogeology (3+1) 5. Basin analysis and Sequence Stratigraphy (2+2) 6. Marine Geology and Oceanography (2+2)
8.	Environmental Science	Air and Noise Pollution Control Technology		Solid and Hazardous Waste Management	Environment Impact Assessment and Legislation	Environment Management
9.	Statistics	Multivariate Analysis		Computational Statistics	Operations Research (Elective Paper)	Industrial Statistics (Elective Paper) Bio Statistics (Elective Paper)
10.	Electronics	Electromagnetic Fields and Antennas		Digital Communication	Microwave and Optical Communication	Mobile and Satellite Communication
11.	Computer Science	Data Mining		Artificial Intelligence & Expert System	Design and Analysis of Algorithm	<b>Elective – 2</b> 2.1 Embedded System 2.2 Pattern Recognition 2.3 Parallel Computing

Sr. No	Subject	Day Date Paper	Wednesday 03-10-2018 I	Friday 05-10-2018 II	Monday 08-10-2018 III	Wednesday 10-10-2018 IV
12.	Mathematics	Dynamical Systems		Partial Differential Equations	Optional Paper (Any Three) 08-10-2018 Paper – III : Fluid Mechanics – II 10-10-2018 Paper – IV : Cosmology 12-10-2018 Paper – V : Operations Research – II 15-10-2018 Paper – VI : Advanced Algebra 17-10-2018 Paper – VII : Algebraic Topology – II 19-10-2018 Paper – VIII : Banach Algebras 22-10-2018 Paper – IX : Computational Fluid Dynamics	
13.	Medicinal Plant	Herbal Cosmetics		Herbal Drug Technology & Development	Drug Standardization and Regulations	Project
14.	M.Sc. (Tech.) Applied Geology	Indian Mineral Deposits and Mineral Economics		Mineral Exploration	Elements of Mining and Drilling Techniques.	Geomorphology Remote Sensing and GIS.
15.	Information Technology	Data Warehousing and Data Mining		Artificial Intelligence and Expert System.	Design and Analysis of Algorithms.	<b>Elective – II</b> 1.1 Cloud Computing 1.2 Mobile Computing 1.3 Enterprise Computing
16.	Bio Technology	Environmental Science & Bioresources.		Applied Environment Biotechnology.	Environment Monitoring Management.	Ethics Patenting and Biotrepreneurship.

**M.Sc. 6<sup>th</sup> Sem., Winter, 2018**  
( 164 )

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Sr. No	Subject	Day Date Paper	Thursday 04-10-2018 I	Tuesday 09-10-2018 II	Thursday 11-10-2018 III	Saturday 13-10-2018 IV
17.	M.Sc. (Tech.) Applied Geology	Engineering Geology and Geotechniques.		Environmental Geology and Geohazards.	Applied and Industrial Micropaleontology.	Petroleum Exploration.

**GENERAL INSTRUCTIONS FOR SEATING ARRANGEMENT**

The name of the Examination Centre is already printed on the Admission Card of each candidate. However, it is notified for general information of the candidates that, the seating arrangement for the Examination Centre will be notified separately seven days prior to the commencement of the written examination at the respective Examination Centre. The candidates concerned will also be able to get the necessary information about his/her Examination Centre from the concerned College of the candidate.

Nagpur

Date: 30<sup>th</sup> June , 2018

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Sd/-  
Director  
Board Of Examination & Evaluation  
Rashtrasant Tukadoji Maharaj  
Nagpur University