



**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY**

**M.Sc. THIRD SEMESTER(CBS) EXAMINATION OF SUMMER, 2018**

**-: PROGRAMME (WRITTEN) :-**

**TIME : 9.30 A.M. TO 12.30 P.M.**

Sr. No	Subject	Day Date Paper	Wednesday 21-03-2018 I	Friday 23-03-2018 II	Tuesday 27-03-2018 III	Saturday 31-03-2018 IV
1.	Physics		Quantum Mechanics – II	Nuclear and Particle Physics – I	Optional Paper (Any One) 1. Materials Science – I 2. Atomic and Molecular Physics (Spectroscopy) – I 3. Applied Electronics – I 4. X-rays – I 5. Nanoscience and Nanotechnology – I	Elective (Any One) 1. X-Rays 2. Materials Science 3. Numerical Methods and Programming 4. Spectroscopy elective – i 5. Lasers, Fibre Optics and Applications elective – I 6. Digital Electronics and Microprocessors
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 Molecular Biology		Biotechnology	Immunobiology	Biochemical & Environmental Toxicology
4.	Microbiology	Medical Microbiology and Parasitology		Immunology and Immunodiagnostics	Bioinformatics	Microbial Fermentation Technology
5.	Botany	Plant Ecology		Cell and Molecular Biology – II	Plant Biotechnology	Angiosperms – II
6.	Zoology	Parasitology		Immunology	<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	Fuel Geology (Coal, Petroleum and Nuclear ) (2+1+1)		Environmental Geology & Engineering Geology (2+2)	Geomorphology, Remote Sensing and GIS (1+2+1)	Hydrogeology & Watershed Management (3+1)
8.	Environmental Science	Water Supply and Resources		Water and Water Treatment	Physico – Chemical Treatment of Water & Waste Water	Biological Process in Wastewater Treatment
9.	Statistics	Decision Theory and Non Parametric Methods		Linear and Nonlinear Modeling	Mathematical Programming	Industrial Process and Quality Control
10.	Mathematics	Complex Analysis		Functional Analysis	Optional Paper (Any Three) <b>27-03-2018</b> Paper – III : Fluid Dynamics – I <b>31-03-2018</b> Paper – IV : General Relativity <b>03-04-2018</b> Paper – V : Operations Research – I <b>05-04-2018</b> Paper – VI : Algebraic Topology – I <b>07-04-2018</b> Paper – VII : Operator Theory <b>09-04-2018</b> Paper – VIII : Non – linear Programming <b>11-04-2018</b> Paper – IX : MATLAB Programming	
11.	Electronics	Network Analysis and Synthesis		Fuzzy Logic and Artificial Neural Networks	Digital Signal Processing	Mechatronics

Sr. No	Subject	Day Date Paper	Wednesday 21-03-2018 I	Friday 23-03-2018 II	Tuesday 27-03-2018 III	Saturday 31-03-2018 IV
12.	Computer Science		Data Communication and Networks	Software Engineering	Neural Network	<b>Elective – I</b> 1.1 Mobile Computing 1.2 Multimedia Technologies 1.3 ASP.NET
13.	Sericulture		Silkworm Seed and Rearing Technology	Biology and Mulberry Silkworm Rearing Technology	Genetics and Breeding of Mulberry Silkworms	Genetics and Breeding of Silkworms and Host Plants
14.	Medicinal Plants		Natural Plant Products & Phytochemistry – II	Medicinal Plant Biotechnology	Fermentation Technology	Immunology and Microbiology
15.	Molecular Biology and Genetic Engineering		Bioinformatics and Data Mining	Biostatistics, Laboratory Management & Safety	Plant Genetic Engineering	Animal Genetic Engineering <b>Paper – X : Tuesday, 03-04-2018</b> Industrial Applications of Genetic Engineering
16.	<b>M.Sc. Tech.</b> Applied Geology		Geochemistry	Instrumentation Techniques, Geostatistics and Computer Application in Geology	Ore Geology	Mining Geology & Valuation of Mineral Property
17.	Information Technology		Data Communication and Networks	Software Engineering	Soft Computing	<b>Elective – I</b> 1.1 Distributed Databases 1.2 Object Oriented Analysis and Design using UML 1.3 CORBA
18.	Biotechnology		Animal Biotechnology	Plant Biotechnology	Genetic Engineering – I	Genetic Engineering – II

**M.Sc. Tech. 5<sup>th</sup> Sem., (CBS)SUMMER, 2018**

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**M.Sc. Tech. (APPLIED GEOLOGY) 5<sup>TH</sup> SEMESTER (CBS) EXAMINATION OF SUMMER, 2018**

**-: PROGRAMME (WRITTEN) :-**

**TIME : 2.30 P.M. TO 5.30 P.M.**

Sr. No	Subject	Day Date Paper	Tuesday 20-03-2018 I	Thursday 22-03-2018 II	Saturday 24-03-2018 III	Monday 26-03-2018 IV
1	M.Sc. TECH. Applied Geology		Fuel Geology (Coal, Petroleum and Nuclear)	Ore Microscopy and Ore Dressing	Hydrogeology and Watershed Management	Optional (Any One) 1. Exploration Geochemistry 2. Quaternary Geology and Limnogeology 3. Marine Geology and Oceanography 4. Basin analysis and Sequence Stratigraphy

**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: 8<sup>th</sup> January 2018

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