



REVISED

M.Sc. 1st Sem (CBCS) (NEP)., WINTER, 2023
(763 To 770, 772 To 774, 777, 778, 780)

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY
M.Sc. 1ST SEMESTER (C.B.C.S.) (NEP) EXAMINATION OF WINTER, 2023
(As Per NEP 2020 Examination Scheme)

-: PROGRAMME (WRITTEN) :-
TIME : 9.30 A.M. TO 12.30 P.M.

Sr. No	Subject	Day Date Paper	Tuesday 16-01-2024 I	Thursday 18-01-2024 II	Tuesday 23-01-2024 III	Thursday 25-01-2024 IV	Saturday 27-01-2024 V
1.	Physics	Mathematical Physics		Electronics	Elective : (Choose Any One) 1. Energy Devices 2. Experimental Techniques in Physics	Research Methodology	----
2.	Chemistry	Inorganic Chemistry		Physical Chemistry	Elective : (Choose Any One) 1. Bioinorganic Chemistry 2. Biomolecules 3. Foundations of Thermodynamics and Electrochemistry 4. Analytical Separation Techniques	Research Methodology	----
3.	Bio-Chemistry	Protein Biochemistry		Enzymology	Elective : (Choose Any One) 1. Plant Biochemistry 2. Model Research Organisms	Research Methodology	----
4.	Microbiology	Microbial Metabolism		Enzymology and Techniques	Elective : (Choose Any One) 1 Advance Techniques in Microbiology 2 Membrane Structure and Signal Transduction	Research Methodology	----
5.	Botany	Microbiology Algac and Fungi		Bryophytes and Pteridophytes	Paleobotany and Gymnosperms	Research Methodology	----
6.	Zoology	Biology Of Non-Chordata		Cell Biology and Genetics	Elective : (Choose Any One) 1. Mammalian Reproductive Physiology- Male 2. Digestive Excretory Physiology 3. General Fish Biology 4. General Entomology	Research Methodology	

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7.	Geology	Mineralogy and Crystallography Stratigraphy and Indian Geology (1+1+1+1)		Igneous Petrology and Metamorphic Petrology (2+2)	Elective : (Choose Any One) 1. Magamatic and Metamorphic Ore Systems, Cosmochemistry and Medical Geology (2+1+1) 2. Precambrian Geology, Planetary Geology and Forensic Geology (2+1+1)	General Principles, Mapping Techniques, Computer Techniques, Software and Geostatistical Methods and Instrumentation Techniques (1+1+1+1)	----
8.	Environmental Science	Environmental Chemistry		Environmental Microbiology and Biotechnology	Elective : (Choose Any One) 1. Ecotechnology for Sustainable Development 2. Environmental Management	Research Methodology	----
9.	Electronics	Fundamentals of Semiconductor Devices		Analog and Digital Systems	Elective : (Choose Any One) 1. Network Analysis and Synthesis 2. Programming in C and Embedded C 3. Programming in Python and Micro python 4. MATLAB	Research Methodology	
10.	Computer Science	Artificial Intelligence		Complier Construction	Elective I : (Choose Any One) 1. Computer Architecture & Organization 2. Discrete Mathematics	Research Methodology	
11.	Mathematics	Algebra		Topology	Ordinary Differential Equations	Elective I : (Choose Any One) 1. Integral Equations 2. Fuzzy Mathematics	Research Methodology in Mathematics
12.	Biotechnology	Cell Biology, Enzymology and Genetics		Biomolecules	Elective : (Choose Any One) 1. Clinical Research 2. Nanobiotechnology	Research Methodology	
13.	Information Technology	Artificial Intelligence		Cyber Security	Elective : (Choose Any One) 1. PHP 2. Discrete Mathematics	Research Methodology	
14.	Forensic Science	Advanced Forensic Science		Forensic Chemistry and Toxicology	Forensic Biology and Serology	Digital and Cyber Forensic	Criminalistics PAPER – VI Monday, 29 - 01 – 2024 Elective : (Choose Any One) 1. Forensic Physics and Ballistics 2. Forensic Psychology PAPER – VII Wednesday, 31 – 01 - 2024 Research Methodology

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15.	Human Development	Methods of Child Study		Early Childhood Care and Education	Elective I : (Choose Any One) 1. Early Stimulation and Creche Management OR 2. Child and Human Rights	Research Methods & Statistics – I	
16.	Textile & Clothing	Advance Textile Science		Advanced Pattern Making and Grading	Elective I : (Choose Any One) 1. Technical Textile and Processing OR 2. Textile Chemistry	Research Methodology	
17.	Extension Education	Communication Technology		Community Health	Elective I : (Choose Any One) 1. Sustainable Development Approach OR 2. Community Development and Sociology	Research Methodology	
18.	Cosmetic Technology	Formulation and Development (FD)		Quality Assurance Technique (QAT)	Elective I : (Choose Any One) 1. Principles of Cosmetic Technology (PCT) OR 2. Concepts in Cosmetic Technology (CCT)	Research Methodology	
19.	Hospitality Management	Customer Relationship Management		Marketing for Hospitality and Tourism	Elective I : (Choose Any One) 1. Food and Beverage Management - I OR 2. Accommodation Management- I	Research Methodology	
20.	Fashion Design	History of Fashion		Advanced Pattern Making	Elective I : (Choose Any One) 1. Sustainable Textiles OR 2. Socio Psycho Aspects of Clothing	Research Design and Planning	
21.	Textile Design	Textile Process		Colour and Design	Elective I : (Choose Any One) 1. Sustainable Textiles OR 2. Socio Psycho Aspects of Clothing	Research Design and Planning	

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: 6th January 2024

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