



**M.Sc. 1<sup>st</sup> Sem (CBCS) (NEP) SUMMER 2024**  
**(400 To 414, 416 To 421)**

**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY**  
**M.Sc. 1<sup>ST</sup> SEMESTER (C.B.C.S.) (NEP) EXAMINATION OF SUMMER 2024**  
**(As Per NEP 2020 Examination Scheme)**

**-: PROGRAMME (WRITTEN) :-**  
**TIME : 2.30 P.M. TO 5.30 P.M.**

Sr. No	Subject	Day Date Paper	Tuesday 23-04-2024 I	Monday 29-04-2024 II	Thursday 02-05-2024 III	Saturday 04-05-2024 IV	Monday 06-05-2024 V
1.	Physics	Mathematical Physics		Electronics	<b>Elective : (Choose Any One)</b> 1. Energy Devices 2. Experimental Techniques in Physics	Research Methodology	----
2.	Chemistry	Inorganic Chemistry		Physical Chemistry	<b>Elective : (Choose Any One)</b> 1. Bioinorganic Chemistry 2. Biomolecules 3. Foundations of Thermodynamics and Electrochemistry 4. Analytical Separation Techniques	Research Methodology	----
3.	Bio-Chemistry	Protein Biochemistry		Enzymology	<b>Elective : (Choose Any One)</b> 1. Plant Biochemistry 2. Model Research Organisms	Research Methodology	----
4.	Microbiology	Microbial Metabolism		Enzymology and Techniques	<b>Elective : (Choose Any One)</b> 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	<b>Elective : (Choose Any One)</b> 1. Mammalian Reproductive Physiology- Male 2. Digestive Excretory Physiology 3. General Fish Biology 4. General Entomology	Research Methodology	

Sr. No	Subject	Day Date Paper	Tuesday 23-04-2024 I	Monday 29-04-2024 II	Thursday 02-05-2024 III	Saturday 04-05-2024 IV	Monday 06-05-2024 V
7.	<b>Geology</b>	Mineralogy and Crystallography Stratigraphy and Indian Geology (1+1+1+1)		Igneous Petrology and Metamorphic Petrology (2+2)	<b>Elective : (Choose Any One)</b> 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.	<b>Environmental Science</b>	Environmental Chemistry		Environmental Microbiology and Biotechnology	<b>Elective : (Choose Any One)</b> 1. Ecotechnology for Sustainable Development 2. Environmental Management	Research Methodology	----
9.	<b>Electronics</b>	Fundamentals of Semiconductor Devices		Analog and Digital Systems	<b>Elective : (Choose Any One)</b> 1. Network Analysis and Synthesis 2. Programming in C and Embedded C 3. Programming in Python and Micro python 4. MATLAB	Research Methodology	
10.	<b>Computer Science</b>	Artificial Intelligence		Compiler Construction	<b>Elective I : (Choose Any One)</b> 1. Computer Architecture & Organization 2. Discrete Mathematics	Research Methodology	
11.	<b>Mathematics</b>	Algebra		Topology	Ordinary Differential Equations	<b>Elective I : (Choose Any One)</b> 1. Integral Equations 2. Fuzzy Mathematics	Research Methodology in Mathematics
12.	<b>Biotechnology</b>	Cell Biology, Enzymology and Genetics		Biomolecules	<b>Elective : (Choose Any One)</b> 1. Clinical Research 2. Nanobiotechnology	Research Methodology	
13.	<b>Information Technology</b>	Artificial Intelligence		Cyber Security	<b>Elective : (Choose Any One)</b> 1. PHP 2. Discrete Mathematics	Research Methodology	
14.	<b>Forensic Science</b>	Advanced Forensic Science		Forensic Chemistry and Toxicology	Forensic Biology and Serology	Digital and Cyber Forensic	Criminalistics <b>PAPER – VI Tuesday 07 - 05 – 2024</b> <b>Elective : (Choose Any One)</b> 1. Forensic Physics and Ballistics 2. Forensic Psychology <b>PAPER – VII</b> <b>Wednesday 08 – 05 - 2024</b> Research Methodology

Sr. No	Subject	Day Date Paper	Tuesday 23-04-2024 I	Monday 29-04-2024 II	Thursday 02-05-2024 III	Saturday 04-05-2024 IV	Monday 06-05-2024 V
15.	Human Development	Methods of Child Study		Early Childhood Care and Education	<b>Elective I : (Choose Any One)</b> 1. Early Stimulation and Creche Management <b>OR</b> 2. Child and Human Rights	Research Methods & Statistics – I	
16.	Textile & Clothing	Advance Textile Science		Advanced Pattern Making and Grading	<b>Elective I : (Choose Any One)</b> 1. Technical Textile and Processing <b>OR</b> 2. Textile Chemistry	Research Methodology	
17.	Extension Education	Communication Technology		Community Health	<b>Elective I : (Choose Any One)</b> 1. Sustainable Development Approach <b>OR</b> 2. Community Development and Sociology	Research Methodology	
18.	Cosmetic Technology	Formulation and Development (FD)		Quality Assurance Technique (QAT)	<b>Elective I : (Choose Any One)</b> 1. Principles of Cosmetic Technology (PCT) <b>OR</b> 2. Concepts in Cosmetic Technology (CCT)	Research Methodology	
19.	Hospitality Management	Customer Relationship Management		Marketing for Hospitality and Tourism	<b>Elective I : (Choose Any One)</b> 1. Food and Beverage Management - I <b>OR</b> 2. Accommodation Management- I	Research Methodology	
20.	Fashion Design	History of Fashion		Advanced Pattern Making	<b>Elective I : (Choose Any One)</b> 1. Sustainable Textiles <b>OR</b> 2. Socio Psycho Aspects of Clothing	Research Design and Planning	
21.	Textile Design	Textile Process		Colour and Design	<b>Elective I : (Choose Any One)</b> 1. Sustainable Textiles <b>OR</b> 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: 20<sup>th</sup> March 2024**

*C:\ss\TT S M.Sc.I.doc*

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