

Bachelor of Science Examination March/April -2026 (NEP-2024)

Day & Date	Class /Sem.	Subject Name	Time	Subject Code	Marks
Monday 23/03/2026	B.Sc. I/II	Aromatic Chemistry	2.00Pm to 4.00Pm	20032111	50M

Instructions: 1. Draw neat & labeled diagram if necessary

2. All questions are compulsory.

Q.1. Answer the following questions. (Any Five)

10 M

1. Give the definition of Aromatic compound.
2. Give the definition of non aromatic compound.
3. Write the definition of Huckels rule.
4. Write note on criteria for aromaticity.
5. Give the physical properties of Aromatic compound .
6. Give the definition of Covalent bond.

Q.2. Attempt the following questions. (Any Two)

10 M

1. What is Polarizing power. Give the factors affecting polarizing power.
2. Give the definition of coordinate co-valent bond.
3. Give the methods of preparation of benzene.

Q.3. Attempt the following questions. (Any Two)

10 M

1. Give difference between polar and non-polar molecule.
2. Describe Fagan's rule.
3. How determine percentage of ionic character from dipole moment.

Q.4. Attempt the following questions. (Any Two)

10M

1. Define metallic bond. Give characteristic of metallic bond.
2. Describe free electron model.
3. Write note on Van der Waals.

Q.5 Attempt the following question. (Any Two)

10M

1. Give definition and unit of dipole moment.
2. Define Hybridization. Give example example of it.
3. Define covalent bond.

Bachelor of Science Examination: March/April-2026 (NEP-2024)

Day & Date	Class/ Semester	Subject Name	Time	Code	Marks
Tuesday 24/03/2026	B.Sc.-I/II	Zoology(Reproduction & Development)	11.00 AM To 01.00 PM	20032411	50

Instruction: - 1) All questions are compulsory.
2) Draw neat & labeled diagram whenever necessary.
3) All questions carry equal marks.

Q.1. Attempt Any Seven of the following questions.

14 Marks

- 1) Define microtubules.
- 2) Define joints.
- 3) Define cilia.
- 4) Types of reproduction.
- 5) Function of paramecium.
- 6) Draw neat & labeled diagram – jointed legs in arthropods.
- 7) Draw neat & labeled diagram – starfish.
- 8) Draw neat & labeled diagram – pseudopodia in amoeba.
- 9) Function of pseudopodia.
- 10) Types of nervous system.

Q.2. Attempt Any Two of the following question.

12 Marks

- 1) Give the structure & function of pseudopodia.
- 2) Give the structure & function of starfish.
- 3) Give the structure & function of jointed legs in arthropods.

Q.3. Attempt Any Three of the following question.

12 Marks

- 1) Describe Viviparity & oviparity.
- 2) Describe asexual reproduction.
- 3) Describe nerve ring & nerve cord in earthworm
- 4) Describe sexual reproduction.

Q.4. Attempt Any Three of the following question.

12 Marks

- 1) Describe structure & function of paramecium.
- 2) Describe reproductive system in earthworm.
- 3) Describe reproductive system of rat.
- 4) Describe the nervous system.

Bachelor of Science Examination March/April -2026 (NEP-2024)

Day & Date	Class /Sem.	Subject Name	Time	Subject Code	Marks
Wednesday 25/03/2026	B.Sc. I/II	Fundamentals of Microbiology	11.00 AM To 01.00 PM	20032511	50M

Instructions: 1. Draw neat & labeled diagram if necessary
2. All questions are compulsory.

Q.1. Multiple-choice questions (MCQs)

10 M

1) Pigmented bacteria show:

- A) Colorless colonies
- B) Colored colonies
- C) Transparent colonies
- D) None

2) Mannitol Salt Agar is selective for:

- A) E. coli
- B) Salmonella
- C) Staphylococcus
- D) Bacillus

3) E. coli is commonly found in:

- A) Soil
- B) Air
- C) Intestine
- D) Water only

4) Autoclave works on:

- A) Dry heat
- B) Moist heat
- C) Radiation
- D) Filtration

5) Standard autoclave conditions are:

- A) 100°C, 10 min
- B) 121°C, 15 min
- C) 80°C, 1 hrs.
- D) 150°C, 5 min

6) Hot air oven is used for:

- A) Moist heat sterilization
- B) Dry heat sterilization
- C) Filtration
- D) Radiation

7) Raised colonies are described as:

- A) Flat
- B) Convex
- C) Filamentous
- D) Irregular

8) . Oil immersion objective is:

- A) 10X
- B) 40X
- C) 100X
- D) 4X

9) Peptone is a source of:

- A) Carbon
- B) Nitrogen
- C) Oxygen
- D) Sulfur

10) Standard incubation temperature for most bacteria:

- A) 4°C
- B) 25°C
- C) 37°C
- D) 60°C

Q.2. Attempt the following questions. (Any Ten)

10 M

- 1) Why is sterilization important in culture preparation?
- 2) What is the Function of Agar Agar Powder?
- 3) What are colony characteristics of bacteria?
- 4) What is MacConkey agar used for?
- 5) What is the principle of microbial cultivation?
- 6) What are methods of preservation of microorganisms?
- 7) What is a pure culture technique?
- 8) What is the difference between liquid and solid media?
- 9) Why is nitrogen important for microorganisms?
- 10) What are the phases of the growth curve?
- 11) Name of any four microbiology instruments?
- 12) Name of any four-microbial media?

Q.3. Attempt the following questions. (Any Two)

10 M

- 1) Write a short note on inoculation of liquid media.
- 2) Short note on Streak Plate Method
- 3) Short note on Methods of Preservation of Microorganisms.

Q.4. Attempt the following questions. (Any Two)

10M

- 1) What are pigmented bacteria? Explain briefly.
- 2) Write a short note on MacConkey agar.
- 3) Write a short note on motility test (soft agar method).

Q.5 Attempt the following question. (Any Two)

10M

- 1) Write a short note on preparation of nutrient agar.
- 2) Short note on Study of Microbial Growth Curve?
- 3) Write a short note on colony characteristics of bacteria.

Bachelor of Science Examination March /April- 2026 (NEP-2024)

Day & Date	Class /Sem.	Subject Name	Time	Subject Code	Marks
Friday, 27/ 03 /2026	B.Sc. I/II	OEC Climate Change	11.00 AM To 01.00 PM	20410711	50M

Instructions: 1. Draw neat & labeled diagram if necessary

2. All questions are compulsory.

Q.1. Answer the following questions. (Any Five)

10 M

1. What is La Nina?
2. Give the long form of UNFCCC?
3. Define biodiversity?
4. What is Earth Summit?
5. What is Global warming?
6. Give the definition of Climate change?

Q.2. Attempt the following questions. (Any Two)

10 M

1. What is UJALA scheme?
2. Give definition, example and impact of climate.
3. Give definition, example and impact of Weather.

Q.3. Attempt the following questions. (Any Two)

10 M

1. Give the definition and types of Adaptation.
2. Give the biological evidence for climate change.
3. Write note on Paris Agreement.

Q.4. Attempt the following questions. (Any Two)

10M

1. What is El Nino?
2. Give the definition of vulnerability.
3. Give meteorological and physical evidences for climate change

Q.5 Attempt the following question. (Any Two)

10M

1. Give the difference between weather and climate.
2. Write note on Doha conference.
3. What is Kyoto protocol?

Bachelor of Science Examination March/April -2026 (NEP-2024)

Day & Date	Class /Sem.	Subject Name	Time	Subject Code	Marks
Wednesday 01/04/2026	B.Sc. I/II	OEC Climate change	2.00Pm to 4.00Pm	20410711	50M

Instructions: 1. Draw neat & labeled diagram if necessary
 2. All questions are compulsory.

Q.1. Answer the following questions. (Any Five) **10 M**

1. Define climate.
2. Define Weather
3. Define climate change.
4. Give the definition of adaptation
5. Give the definition of vulnerability.
6. What is UJALA scheme?

Q.2. Attempt the following questions. (Any Two) **10 M**

1. Give the definition and type of adaptation.
2. Write note on Doha conference.
3. What is Kyoto protocol.

Q.3. Attempt the following questions. (Any Two) **10 M**

1. Give meteorological and physical evidences for climate change.
2. Give information about extreme precipitation and drought.
3. Write note on wildfire.

Q.4. Attempt the following questions. (Any Two) **10M**

1. What is EI Nino.
2. What is UNFCC.
3. What is world Summit?

Q.5 Attempt the following question. (Any Two) **10M**

1. What is Paris Agreement?
2. Give the Human causes of climate change.
3. What is La Nina?



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NAAC 1st Cycle Accredited at 'B' Grade (CGPA 2.46)
(Affiliated To S.N.D.T Women's University, Mumbai)

Examination March/April -2026

Day & Date	Class (Sem.)	Subject Name	Time	Subject Code	Max. Marks
Thursday 02/04/2026	B.Sc. I/II	SEC(Personality development and communication)	11.00Am To 1.00 PM	20732101	50M

Instructions: 1.All questions are compulsory.

Q.1 Attempt the following questions. (Any Five) **10M**

1. What are the techniques of stress management?
2. What are the tips of effective time Management?
- 3.What is the basic principle of good manners?
4. What are the table manners while eating food?
5. Write any two effective habits for personal growth?
6. Explain emotional intelligence (EI) and different areas of EI?
7. What are the reasons of stress ?

Q.2 Answer the following questions. (Any Two) **10M**

1. Describe the factors of association affected personality development?
2. What are the aspects for effective Speech?
3. What are the factors associated with association personality development?

Q.3 Attempt the following question. (Any two) **10M**

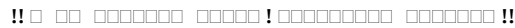
1. What is motivation and explain types of Motivation?
2. What are the Types of leadership?
3. What is self-assessment?

Q4 Attempt the following question. (Any two) **10M**

1. Explain the term personality?
2. What are the advantages of Positive Attitude?
3. What are the various techniques of stress management?

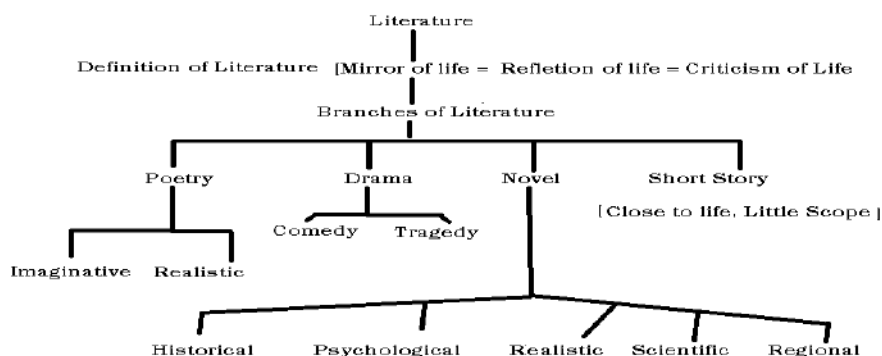
Q.5 Attempt the following question. (Any two) **10M**

- 1.What are the Types of Realtionship?
- 2.What are the disadvantages of negative attitude?
- 3.Describe the personality traits?



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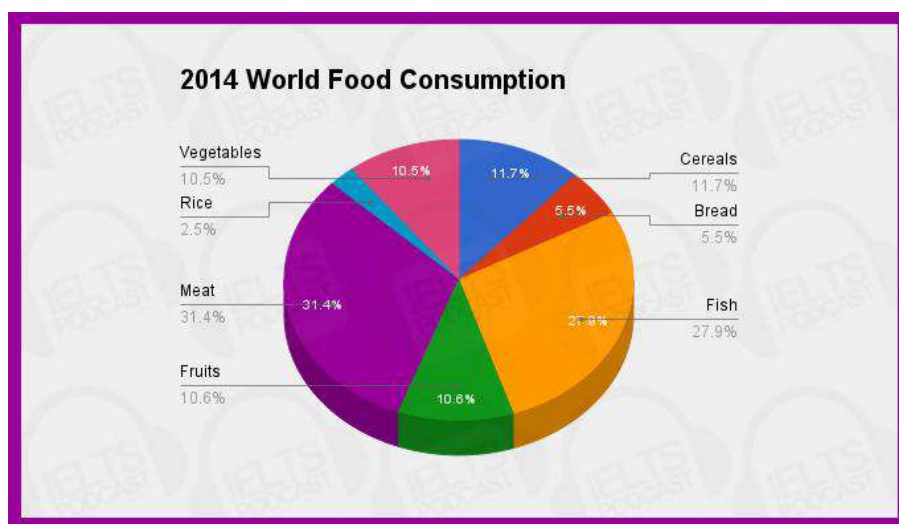
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Q.3. Attempt the following questions: (Any Three)

12 M

- 1) Write a short paragraph with the help of the points given in the pie- chart :



- 2) Write an e-mail inviting your friend for Science Exhibition organized by your college.
- 3) Note Making : Mind Mapping of Photosynthesis .
- 4) Write a letter to the editor of a newspaper requesting action against noise pollution.

Q.4. Attempt the following questions. (Any Three)

12 M

- 1) Write an Invitation letter to the Principal for event- Graduating Ceremony.
- 2) Introduce a Chief Guest came for International Women's Day celebration in your college.
- 3) Write a letter to the principal requesting permission for a field visit to Mumbai aquarium.
- 4) Note Making : Prepare mind mapping of Climate Change.

Bachelor of Science Examination: March/April-2026 (NEP-2024)

Day & Date	Class/ Semester	Subject Name	Time	Code	Marks
Monday 30/03/2026	B.Sc.-I/II	Environment Awareness	11.00 AM To 01.00 PM	20952111	50

Instruction: - 1) All questions are compulsory.
2) Draw neat & labeled diagram whenever necessary.
3) All questions carry equal marks.

Q.1. Attempt Any Seven of the following questions.

14 Marks

- 1) Types of Environment.
- 2) Define Deforestation.
- 3) Define Environment.
- 4) Define Ecosystem.
- 5) Define Pollution.
- 6) Types of Component and Environment.
- 7) Write down the names of environment protection acts.
- 8) Explain Abiotic Components.
- 9) Write down the any two types of pollution.
- 10) Explain Biotic Components.

Q.2. Attempt Any Two of the following question.

12 Marks

- 1) Explain need for public Awareness.
- 2) Explain Types of Pollution.
- 3) Explain Components of environment

Q.3. Attempt Any Three of the following question.

12 Marks

- 1) Describe Effect of Water Pollution
- 2) Describe Stability of Ecosystem in sustainable Environment
- 3) Describe Types of pollution.
- 4) Describe Effects of Air Pollution

Q.4. Attempt Any Three of the following question.

12 Marks

- 1) Explain Water Pollution Act.
- 2) Explain Man Environment relationship.
- 3) Explain Solid Wastes Pollution act.
- 4) Explain Water Pollution Act.