

# MANONMANIAM SUNDARANAR UNIVERSITY

DIRECTORATE OF DISTANCE AND CONTINUING EDUCATION

INTERNAL ASSIGNMENT FOR MAY 2024 EXAMINATIONS

**B.Sc. Chemistry – Second Semester**

பொதுத் தமிழ் - 1

தமிழ் இலக்கிய வரலாறு - II

**Subject Code: J1TL21**

1.) (அ) சிற்றிலக்கியம் தோற்றம் வளர்ச்சி குறித்து விளக்குக.

(அல்லது)

(ஆ) புதுக்கவிதை தோற்றம் வளர்ச்சி குறித்து விளக்குக.

2.) (அ) கடிதம் அந்நியர்கள் சிறுகதைகளை ஆராய்க.

(அல்லது)

(ஆ) வேலைக்காரி நாடகம் குறித்து கட்டரை வரைக.

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**B.Sc. Chemistry – Second Semester**

**General English - II (Part - II English)**

**Subject Code: J2EN21**

1.) (A) Examine the use of imagery and metaphor in the poem “Still Here”.

(OR)

(B) Reflect on the enigmatic personality of princess in “The lady, Or the Tiger”.

2.) (A) Elucidate the theme of choice and decision-making in “The Road Not Taken”.

(OR)

(B) Write about the narrator’s grandmother’s experiences of Illiteracy and her journey towards self-empowerment in “How I Taught My Grandmother to Read?”

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**B.Sc. Chemistry – Second Semester**

**General Chemistry - II**

**Subject Code: JMCH21**

- 1.) (A) i.) Types of Buffer solutions.  
ii.) Mechanism of buffer action in acid and base medium.  
iii.) Derive Henderson – Hasselbalch equation.

**(OR)**

- (B) i.) Synthesis, structure and bonding of diborane and borazane.  
ii.) Give the preparation, properties and uses of alkaline earth metals.

- 2.) (A) i.) Synthesis, structure and properties of noble gases.  
ii.) Conformational analysis of cyclohexane

**(OR)**

- (B) i.) **Write on:** Hofmann and Saytzeff rule  
Markownikoff's rule  
Huckel's rule  
ii.) Friedel-Crafts alkylation and acylation.

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**B.Sc. Chemistry – Second Semester**

**Allied Physics - II**

**Subject Code: JEPH21**

- 1.) (A) Derive Bohr formula and calculate the radius of the first Orbit for hydrogen atom.

**(OR)**

- (B) Write the principle, construction and working of a nuclear reactor.

- 2.) (A) Derive Einstein's photoelectric equation. Give the application of photoelectric effect.

**(OR)**

- (B) Derive the Galilean and Lorentz transformation equation.

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**B.Sc. Chemistry – Second Semester**

**Dairy Chemistry**

**Subject Code: JSCH21**

1.) (A) Estimation of fat, acid and total solids in milk.

(OR)

(B) Discuss the types of pasteurization process of milk.

2.) (A) Give the major constituents of ghee and common adulterants of ghee. How will you detect it?

(OR)

(B) i.) Fermentation of milk  
ii.) Manufacture of ice cream.

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**B.Sc. Chemistry – Second Semester**

**Allied Physics - II**

**Subject Code: JSCH22**

1.) (A) Give the ingredients and formulation of

- i.) Face Powder
- ii.) Shaving cream
- iii.) Sunscreen lotions
- iv.) Skin tonics

**(OR)**

(B) Types and ingredients of shampoos and conditioners.

2.) (A) i.) Types and ingredients of make up.

- ii.) Classify the natural and synthetic perfumes.

**(OR)**

(B) Discuss the advantages and disadvantages of Facial, bleach and wax type beauty treatments.