B-	22	-X

Roll No.

Total No. of Questions: 28]

[Total No. of Printed Pages : 7

XIIARJKUT23 9122-X CHEMISTRY

[Maximum Marks: 70

Time: 3 Hours]

SECTION-A

I each

- Define Crystal Lattice.
- 2. Tyndal effect is due to of light.
- 3. The functional group in alcohols is:

$$(C) > C = 0$$

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B-22-X

Turn Over

4	Δr	nine	3 2 2 2	
4.	Δ 1.	1111163	s are	

- (A) Acidic
- (B) Basic
- (C) Neutral
- (D) None of these
- 5. What is IUPAC name of $K_4[Fe(CN)_6]$?
- 6. Citrus fruits have :
 - (A) Vitamin A
 - (B) Vitamin B
 - (C) Vitamin D
 - (D) Vitamin C
 - 7. Aldehydes have:
 - (A) >C-O group
 - (B) —CHO group
 - (C) —OH group
 - (D) —O— group

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SECTION-B

2 each

State Faraday's 2nd law of Electrolysis.

Define Molecularity of Reaction.

How d-Block elements form coloured ions?

Or

Why d-Block elements show catalytic properties?

Define Co-ordination Number.

Or

Explain Ionization Isomerism.

12. Define Haloarenes.

13. Give harmful effects of DDT.

SECTION-C

3 each

14. Explain Schottky defect. v

45. Draw a labelled diagram of Galvanic cell.

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B-22-X

Turn Over

- 16. Calculate Half-life period for Ist order reaction.
- Explain Tyndal effect.
 - 18. Explain Zone refining.
- Give the electronic configuration of group 15 elements.
 - 20. Give three oxidising properties of K₂Cr₂O₇.
- Discuss the nutrition of phenol with conc. HNO_3 in presence of conc. H_2SO_4 .
 - 22. How Benzene diazonium chloride is prepared ₀?

Or

What are Amines ? Give their classification.

23. Define Carbohydrates and give their classification.

Or

What are Enzymes? Give their importance.

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What are Polymers? How are they classified on the basis of structure?

Or

give the preparation and two uses of polythene.

25. Define Analgesics, Antiseptics and Antibiotics.

Or

Why detergents are preferred over soaps?

SECTION-D

5 each

Define elevation in B.P. How can you calculate the molecular mass of a non-volatile solute with it?

Or

Define Osmotic Pressure. How is it determined by Berkeley-Hartley . method ?

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Discuss the oxidation states of group 16 elements.

Or

Discuss the manufacture of NH₃ by Haber's process.

- 28. (a) Show how each of the following compounds can be converted into benzoic acid? https://www.jkboseonline.com
 - (i) Ethyl benzene
 - (ii) Acetophenone
 - (iii) Bromobenzene
 - (b) Account for the following:
 - (i) Electrophilic substitution in benzoic acid takes place at meta position

K - Link

(ii) Chloroacetic acid is stronger than acetic acid

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Or

Explain the following:

(a) Aldol condensation

Cannizzaro's reaction

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