

Class : 12

Register Number						
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UNIT TEST - 1, JULY - 2024

Time Allowed : 1.30 Hours]

CHEMISTRY

[Max. Marks : 35

PART - I

(i) Answer all the questions.

(ii) Choose the correct answer.

5x1=5

- Electrochemical process is used to extract -----
 (a) Sodium (b) Iron (c) Lead (d) Silver
- Solid NH_3 is an example of -----
 a) Metallic Solid b) Molecular solid c) Covalent solid d) Ionic solid
- An aqueous solution of boran is -----
 a) Neutral b) Acidic c) Basic d) Amphoteric
- The Rate constant of a reaction is $5.8 \times 10^{-3} \text{ s}^{-1}$ the order of the reaction is -----
 (a) Zero order (b) Second Order (c) First Order (d) Third Order
- Assertion** : Phenol is more acidic than Ethanol.
Reason : Phenoxide ion is resonance stabilized
 (a) Both assertion and reason are true and reason is the correct explanation of assertion.
 (b) Both assertion and reason are true but reason is not the correct explanation of assertion.
 (c) Assertion is true but reason is false.
 (d) Both assertion and reason are false.

PART - II

Answer any three questions. Q.No. 10 is compulsory.

3x2=6

- Give the limitations of Ellingham diagram? (2)
- Define Half life of a reaction. (2)
- Write short note on Hydroboration? (3)

CH/12/Che/1

9. Write Bragg's equation and explain the terms involved? 184
10. How is Phenol prepared from Chlorobenzene? 126-11

PART- III

Answer any three questions. Q. no. 15 is compulsory.

3x3=9

11. Explain Schottky defect? 193
12. How will you identify Borate radical? 35
13. Describe a method for refining Titanium? 17
14. Write short notes on Schotten - Baumann reaction? 127-11
15. Barium has a body centered Cubic unitcell with a length of 508 pm along an edge. What is the density of Barium in gcm^{-3} ? 185

PART - IV

Answer all the questions.

3x5=15

16. a) i) What is Acid Leaching? (2) 5
- ii) Give the uses of Zinc? (3) 17
- (OR)
- b) Describe the structure of Diborane. 31 (5)
17. a) Differentiate Crystalline Solids and Amorphous Solids? (5) 118
- (OR)
- b) i) Define Rate Law? (2) 208
- ii) Give the differences between order and Molecularity of a reaction? (3) 210
18. a) Explain Victor Meyer's Test? (5) 111-11
- (OR)
- b) i) Why Ionic solids are hard and Brittle. (2)
- ii) Give the uses of Silicones? (3) 118