Ts12C

Tenkasi District
Common First Mid Term Test - 2024

01-08-2024

Time: 1.30 Hours

Standard 12
CHEMISTRY
Part - A

Marks: 35

I. Choose the best answer: 5×1=5

1) Wolframite ore is separated from tinstone by the process of
   a) Smelting
   b) Calcination
   c) Roasting
   d) Electromagnetic separation

2) The stability of +1 oxidation' state increases in the sequence
   a) Al < Ga < In < Tl
   b) Tl < In < Ga < Al
   c) In < Tl < Ga < Al
   d) Ga < In < Al < Tl

3) Iodine molecules are held in the Crystal lattice by
   a) London forces
   b) dipole - dipole interaction
   c) covalent bonds
   d) columbic forces

4) For a general reaction aA + bB→ Products, the rate of the reaction is equal to ....
   a) $k[A]^a[B]^b$
   b) $k[A][B]$
   c) k
   d) −

5) Which one of the following is called Lucas reagent?
   a) Conc. HCl + Anhydrous $ZnCl_2$
   b) Conc. HCl + Anhydrous $AlCl_3$
   c) $LiAlH_4 + H_2O$
   d) Cold dilute alkaline $KMnO_4$

Part - B

Answer any 3 questions: 3×2=6

6) Define Roasting

7) Give the use of slicones

8) Write a short notes on metallic crystals?

9) Define average rate and instantaneous rate

10) Starting from phenol how would you obtain the following compound? Anisole

Part - C

III. Answer any 3 questions: 3×3=9

11) How will you differentiate ore and mineral

12) What are the uses of boaric acid?

13) Predict the density of barium it has edge length 508 pm with b.c.c type

14) Derive the relation ship between first order rate constant and half life period

15) Convert glycol to dioxon

Part - D

IV. Answer any 3 questions: 3×5=15

16) i) Write short note on Zone refining
    ii) What are the limitation of Ellingham diagram

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17) i) Write any two conditions for catenation
   ii) Explain the structure of diborane
18) i) Explain Frenkal defect with examples
   ii) Write any three difference between order and molecularity
19) i) Explain Kolbe's reaction
   ii) Convert Glycerol to glycerose
20) Write note on victor mayer test.

SIVAKUMAR. M. Sri Ram matric HSS
Vallam- 627809, Tenkasi Dist.