QB365 Student Learing Managemnet System
Exam Name: Pre Quarterly - Practice
Std: 12th Standard - Chemistry
Chapter: Metallurgy, p - Block Elements - II, p - Block Elements - I, Transition and Inner Transition Elements, Chemical Kinetics, Hydroxy Compounds and Ethers, Carbonyl Compounds and Carboxylic Acids

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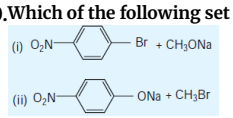
Questions:

ANSWER THE FOLLOWING

1. Explain the following terms with suitable examples.
   (i) Gangue
   (ii) slag
2. Give the uses of silicones.
3. Write the reason for the anomalous behaviour of Nitrogen.
4. Describe the variable oxidation state of 3d series elements.
5. Write the structure of the major product of the aldol condensation of benzaldehyde with acetone.

ANSWER THE FOLLOWING

6. The selection of reducing agent depends on the thermodynamic factor: Explain with an example.
7. How will you identify borate radical?
8. Transition metals show high melting points. Why?
9. Give two examples for zero order reaction.
10. Which of the following set of reactants will give 1-methoxy-4-nitrobenzene.



CHOOSE THE CORRET ANSWER

11. The incorrect statement among the following is_____.
    (a) Nickel is refined by Mond's process (b) Titanium is refined by Van Arkel's process (c) Zinc blende is concentrated by froth floatation
    (d) In the metallurgy of gold, the metal is leached with dilute sodium chloride solution
12. When copper is heated with conc HNO_3 it produces _____.
    (a) $Cu(NO_3)_2$, NO and NO_2 (b) $Cu(NO_3)_2$ and N_2O (c) $Cu(NO_3)_2$ and NO_2 (d) $Cu(NO_3)_2$ and NO
13. 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
14. What is the activation energy for a reaction if its rate doubles when the temperature is raised from 200K to 400K? (R = 8.314 JK^{-1} mol^{-1})
    (a) 234.65 kJ mol^{-1} (b) 434.65 kJ mol^{-1} (c) 2.305 kJ mol^{-1} (d) 334.65 J mol^{-1}
15. Carbolic acid is _____.
    (a) Phenol (b) Picri cacid (c) benzoic acid (d) phenylacetic acid