

Chemistry
Answer All The Question

Reg.No. :

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Time : 00:30:00 Hrs

Total Marks : 30

9 x 3 = 27

- 1) Lead pipes are not used in supplying drinking water. Why?
- 2) Write any three uses of lanthanides.
- 3) Mention and explain the isomerism exhibited by $[\text{Co}(\text{NH}_3)_5\text{Br}]\text{SO}_4$ and $[\text{Co}(\text{NH}_3)_5\text{SO}_4]\text{Br}$.
- 4) Draw the neat sketches of SC, BCC, FCC and mention the number of atoms per unit cell in each of them.
- 5) Give the type of complex reactions for the following:
 - a) bromenation of bromobenzene
 - b) decomposition of Hydrogen Iodide in gaseous phase
 - c) hydrolysis of diester in the presence of base
- 6) Write any three general characteristics of catalytic reactions.
- 7) Draw the structure of Maleic and fumaric acid and explain their stability.
- 8) Write IUPAC names for the following:
 - a) $\text{C}_7\text{H}_5\text{CHO}$
 - b) $\text{C}_6\text{H}_5\text{CH}=\text{CH}-\text{CHO}$
 - c) $\text{CH}_3 - \overset{\text{O}}{\parallel}{\text{C}} - \text{CH}_2 - \text{CH} = \text{CH}_2$
- 9) Give the tests to identify carboxylic acids.
