

Type:MCQ

Q1. According to Wade's rule cluster $[\text{Os}_3(\text{CO})_{12}]$ is type of -

1. Closo
2. Nido
3. Arachno
4. Hypho

Q2. The fragment $[\text{Co}(\text{CO})_4]$ is isolobal with

1. CH_4
2. CH_3
3. CH_2
4. CH

Q3. Total number of M-M bonds in $[\text{Co}_4(\text{CO})_{12}]$ is

1. 3
2. 4
3. 6
4. 5

Q4. Total valence electron count and structure adopted by cluster $[\text{Fe}_5(\text{CO})_{15}(\text{C})]$ resp. are

1. 74 and Nido
2. 60 and Closo
3. 84 and Arachno
4. 62 and Nido

Q5. Role of copper in Wacker's process is

1. Oxidize Pd to Pd^{2+}
2. Reduction of Pd^{2+} to Pd
3. Remove water
4. Attack on activated catalyst

Q6. Which metal is used for alcohol carbonylation?

1. Ru
2. Rh
3. Co
4. Os

Q7. Which chemical converts methanol to methyl iodide in Monsanto acetic acid process?

1. Water
2. Hydroiodic acid
3. Hydrochloric acid
4. Acetic acid

Q8. The concise statement written in research is called -

1. Abstract
2. Thesis
3. Note
4. Research paper

Q9. In research, review of literature is called as -

1. Abstract
2. Literature Survey
3. Paper
4. News

Q10. The meaning of "monographia" is called as -

1. Writing on a multiple subjects
2. Writing on a news
3. Writing on a single subject
4. Writing on a double subject