

JEE Main 2024 Chemistry Question Paper Jan 27 Shift 1 (B.E./B.Tech)

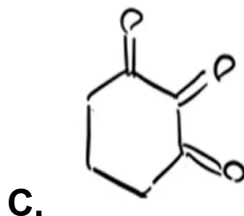
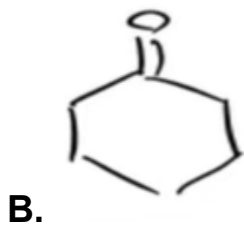
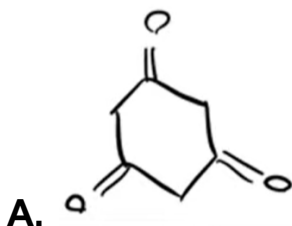
JEE Main Chemistry Questions

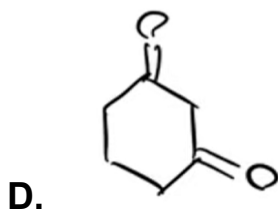
Ques 1. Which of the following can not show variable oxidation state?

- A. Chlorine
- B. Fluorine
- C. Bromine
- D. Iodine

Ans. B

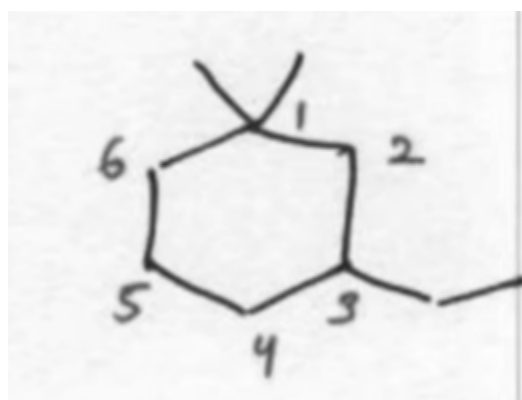
Ques 2. Which of the following has the highest enol content.





Ans. A

Ques 3. IUPAC name of this compound is?



A. 1 - ethyl - 3,3-dimethyl cyclohexane

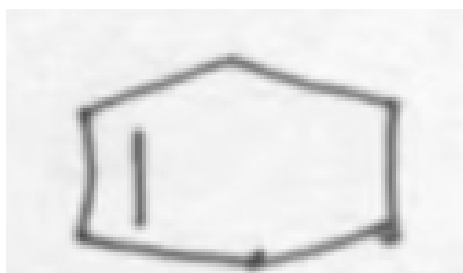
B. 3 - ethyl - 1,1- dimethyl cyclohexane

C. 1 - ethyl - 3,3-dimethyl cyclohexene

D. 3 - ethyl - 1,1- dimethyl cyclohexene

Ans. B

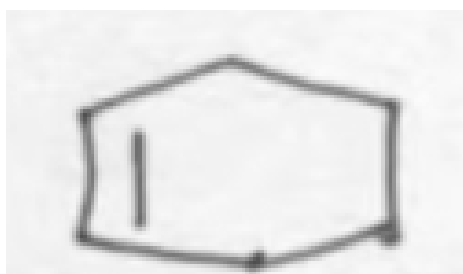
Ques 4. The compound given below is?



- A. Alicyclic
- B. Aromatic
- C. Antiaromatic
- D. Acyclic

Ans. A

Ques 5. Which of the following is a Polar molecule?



- A. $\text{CH}_2=\text{CH}_2$
- B. CHCl_3
- C. CCl_4
- D. CH_4

Ans. B

Ques 6. In which of the following compound central atom has +4 oxidation state?

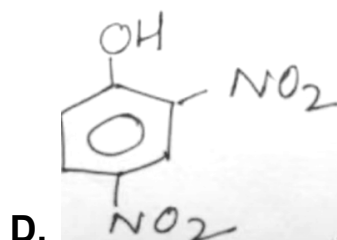
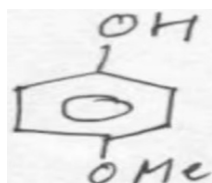
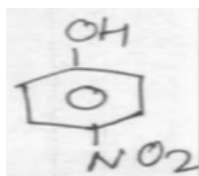
- A. SO_3
- B. H_2SO_3

- C. $\text{H}_2\text{S}_2\text{O}_7$
- D. BaSO_4

Ans. B

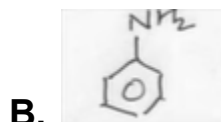
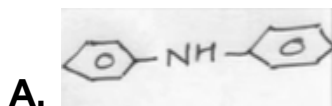
Ques 7. Which of the following is most acidic ?

A. Bu-OH



Ans. D

Ques 8. Select the strongest base



Ans. D

Ques 9. The electronic configuration of Neodymium (60) Nd is

- A. [Xe] $4f^4 6s^2$**
- B. [Xe] $5f^1$**
- C. [Xe] $4f^2 6s^2$**
- D. [Xe] $5f^4 4d^1$**

Ans. A

Ques 10. Ethanol shows turbidity with lucas reagent (conc.HCl + anhydrous $ZnCl_2$) ?

- A. Immediately**
- B. After 5 to 7 mins**
- C. Upon heating**
- D. After 10 - 12 mins**

Ans. C

Ques 11. Which type of linkage is present in nucleotide between base and sugar?

- A. Peptide linkage**
- B. Glycosidic linkage**
- C. N-Glycosidic linkage**
- D. Amide linkage**

Ans. C