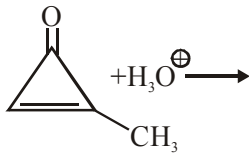
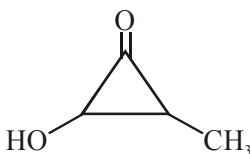
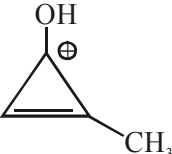
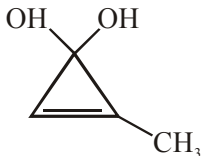
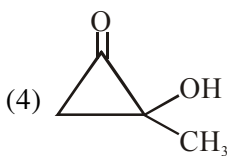


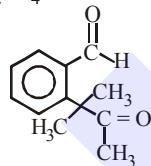
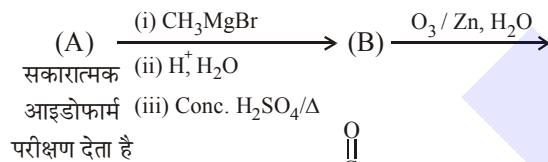
**CARBONYL COMPOUNDS**

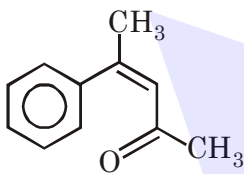
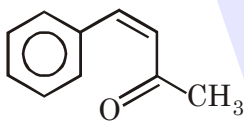
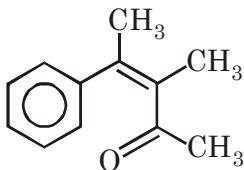
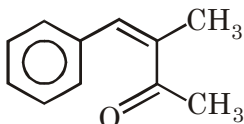
1. निम्नलिखित अभिक्रिया में मुख्य उत्पाद है :



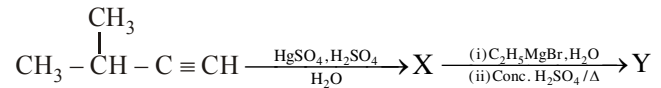
- (1)  (2) 
- (3)  (4) 

2. निम्न अभिक्रिया अनुक्रम में (A) की पहचान कीजिए :



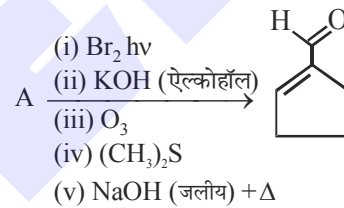
- (1) 
- (2) 
- (3) 
- (4) 

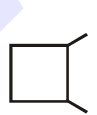
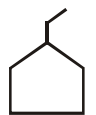
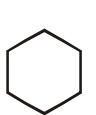
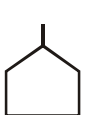
3. निम्न अभिक्रियाओं में मुख्य उत्पाद (Y) है :



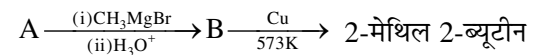
- (1)  $\text{H}_3\text{C} - \overset{\text{CH}_2}{\text{C}} - \underset{\text{C}_2\text{H}_5}{\text{CH}} - \text{CH}_3$
- (2)  $\text{CH}_3 - \overset{\text{CH}_3}{\text{CH}} - \underset{\text{CH}_3}{\text{C}} = \text{CH} - \text{CH}_3$
- (3)  $\text{CH}_3 - \overset{\text{CH}_3}{\text{C}} = \underset{\text{CH}_2\text{CH}_3}{\text{C}} - \text{CH}_3$
- (4)  $\text{CH}_3 - \overset{\text{CH}_3}{\text{CH}} - \underset{\text{CH}_2\text{CH}_3}{\text{C}} = \text{CH}_2$

4. निम्नलिखित अभिक्रिया में A है :



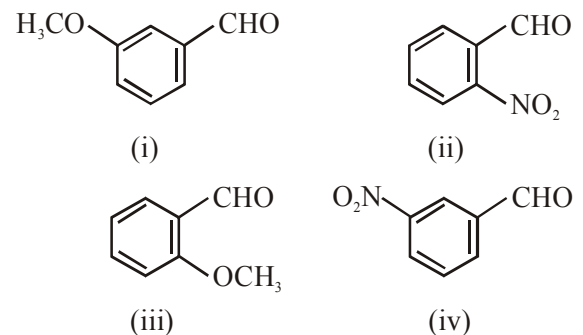
- (1)  (2)  (3)  (4) 

5. निम्नलिखित अभिक्रियाओं पर विचार कीजिए



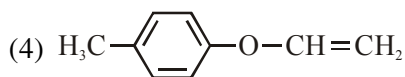
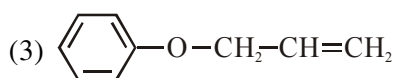
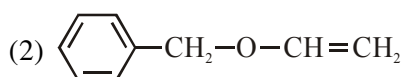
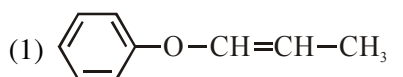
A में कार्बन की संतति प्रतिशतता है \_\_\_\_\_.

6. निम्न यौगिकों का HCN के योग के प्रति बढ़ता क्रम है :



- (1) (iii) < (iv) < (ii) < (i)  
 (2) (iii) < (iv) < (i) < (ii)  
 (3) (iii) < (i) < (iv) < (ii)  
 (4) (i) < (iii) < (iv) < (ii)

7. एक कार्बनिक यौगिक 'A' ( $C_9H_{10}O$ ) को जब सान्द्र HI के साथ अभिक्रियित कराया जाता है, तो इसका विदलन होता है तथा यौगिक 'B' तथा 'C' प्राप्त होते हैं। 'B'  $AgNO_3$  के साथ पीले रंग का अवक्षेप देता है जबकि 'C', 'D' में चलावयवित होता है। 'D' सकारात्मक आयोडोफार्म परीक्षण देता है। 'A' हो सकता है -

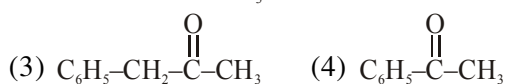
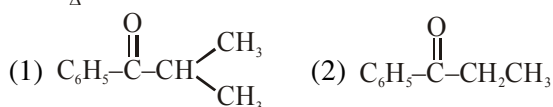
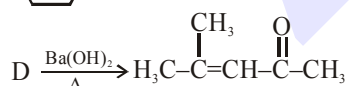
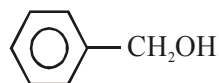


8. निम्नलिखित यौगिकों की नाभिकस्नेही योग अभिक्रियाओं में अभिक्रियाशीलता का बढ़ता क्रम है:

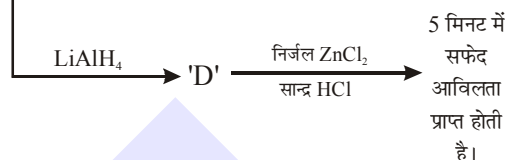
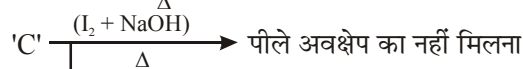
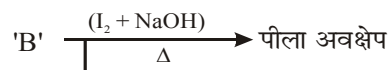
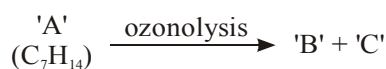
प्रोपेनल, बेन्जेल्डिहाइड, प्रोपेनोन, ब्यूटेनोन

- (1) ब्यूटेनोन < प्रोपेनोन < बेन्जेल्डिहाइड < प्रोपेनल  
 (2) बेन्जेल्डिहाइड < ब्यूटेनोन < प्रोपेनोन < प्रोपेनल  
 (3) प्रोपेनल < प्रोपेनोन < ब्यूटेनोन < बेन्जेल्डिहाइड  
 (4) बेन्जेल्डिहाइड < प्रोपेनल < प्रोपेनोन < ब्यूटेनोन

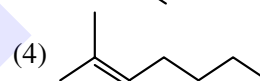
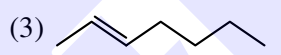
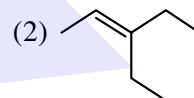
9. निम्नलिखित अभिक्रियाओं में यौगिक A है :



10. निम्न अभिक्रिया पर विचार कीजिए :

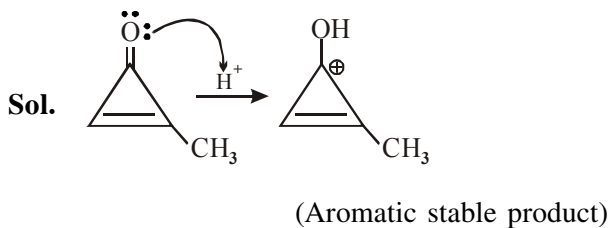


'A' है -

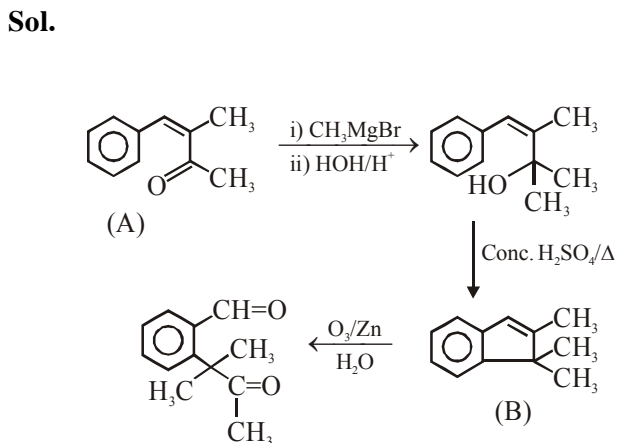


**SOLUTION**

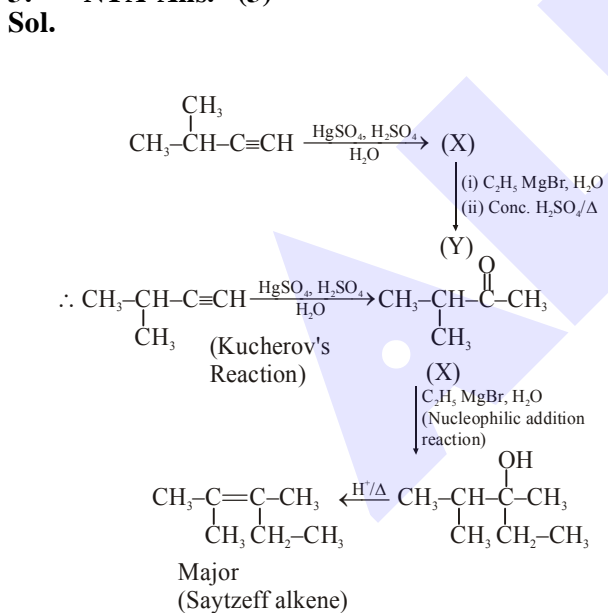
1. NTA Ans. (2)



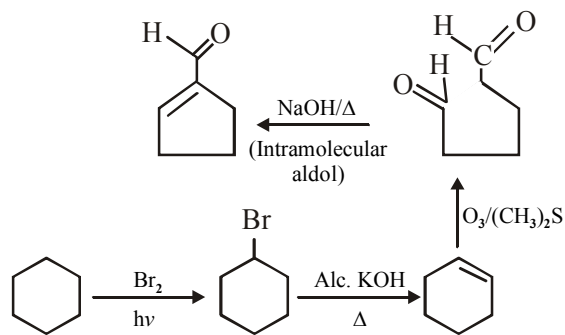
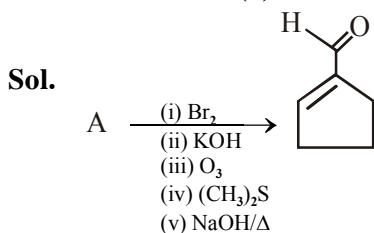
2. NTA Ans. (4)



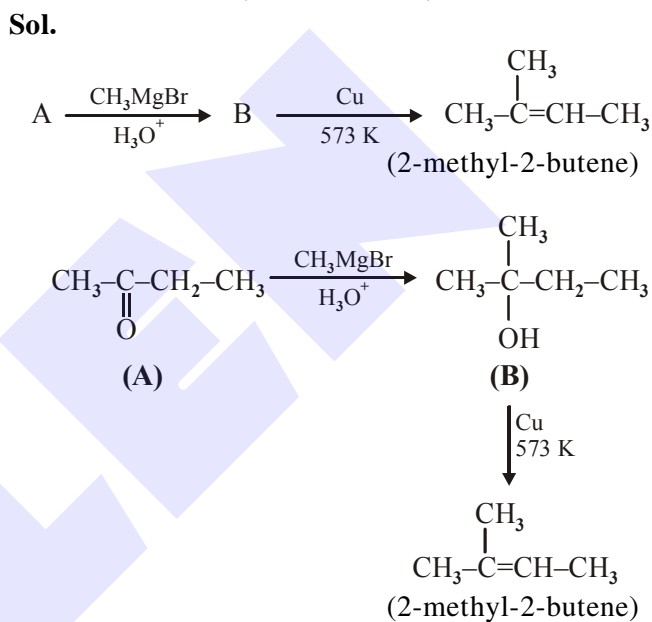
3. NTA Ans. (3)



4. NTA Ans. (3)



5. NTA Ans. (66.65 to 66.70)



$$C \Rightarrow 12 \times 4 = 48$$

$$H \Rightarrow 8 \times 1 = 8$$

$$O \Rightarrow 16 \times 1 = 16$$

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$$\text{Total} \quad 72$$

$$\% \text{ of C} = \frac{48}{72} \times 100 = 66.66\%$$

