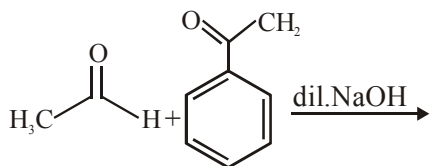


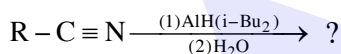
CARBONYL COMPOUND

1. निम्न अभिक्रिया का मुख्य उत्पाद है :



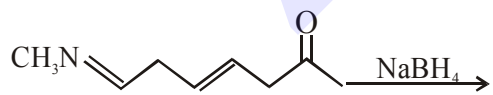
- (1)
- (2)
- (3)
- (4)

2. निम्न अभिक्रिया का मुख्य उत्पाद है :



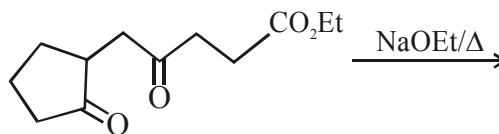
- (1) RCHO
- (2) RCOOH
- (3) RCH₂NH₂
- (4) RCONH₂

3. निम्न अभिक्रिया का मुख्य उत्पाद है :



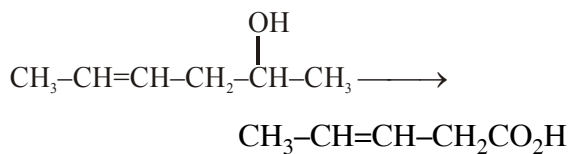
- (1)
- (2)
- (3)
- (4)

4. निम्न अभिक्रिया में प्राप्त मुख्य उत्पाद है :



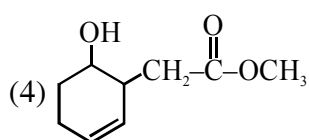
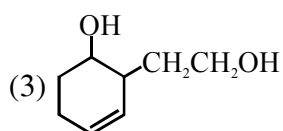
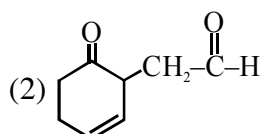
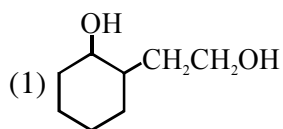
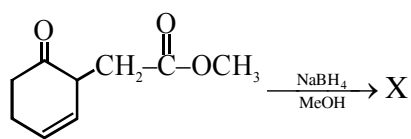
- (1)
- (2)
- (3)
- (4)

5. निम्न रूपांतरण के लिये सर्वाधिक उपयुक्त अभिकर्मक है?

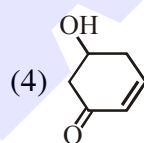
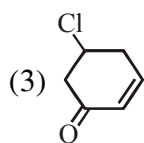
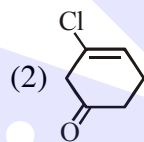
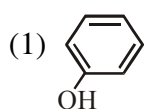
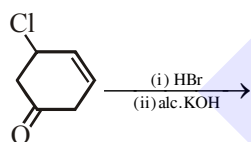


- (1) क्षारीय KMnO₄
- (2) I₂/NaOH
- (3) टॉलेन्स अभिकर्मक
- (4) CrO₂/CS₂

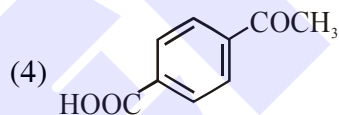
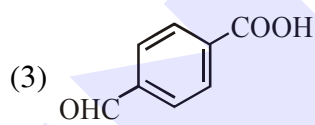
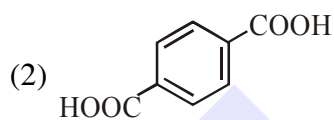
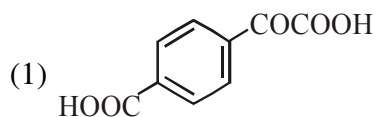
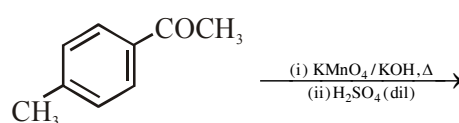
6. निम्न अभिक्रिया में बनने वाला मुख्य उत्पाद 'X' है :



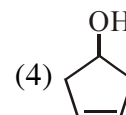
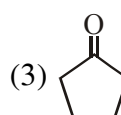
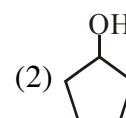
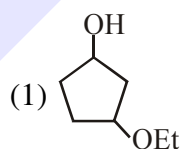
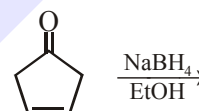
7. निम्नलिखित अभिक्रिया का मुख्य उत्पाद है :



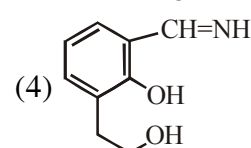
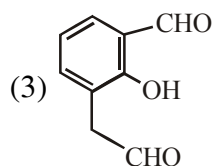
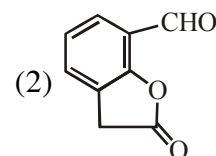
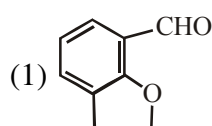
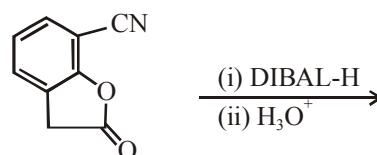
8. निम्नलिखित अभिक्रिया का मुख्य उत्पाद है :



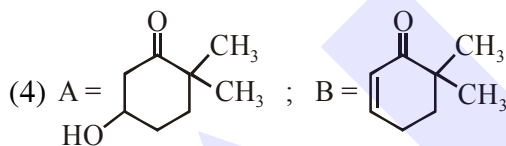
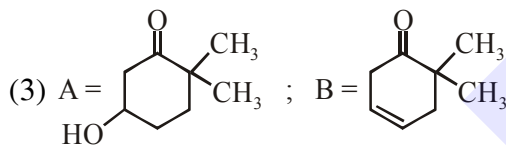
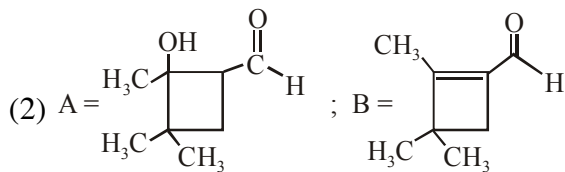
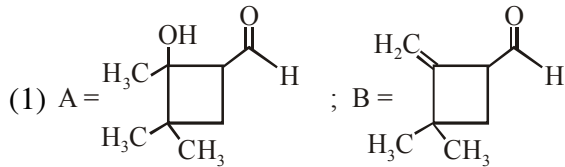
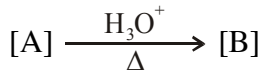
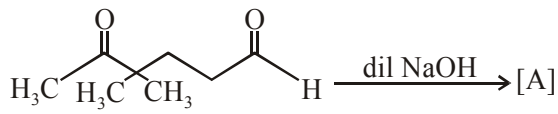
9. निम्न अभिक्रिया का मुख्य उत्पाद है :



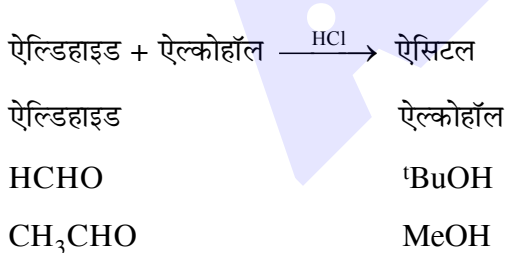
10. निम्न अभिक्रिया का मुख्य उत्पाद है :



11. निम्न अभिक्रियाओं में उत्पाद A तथा B हैं :



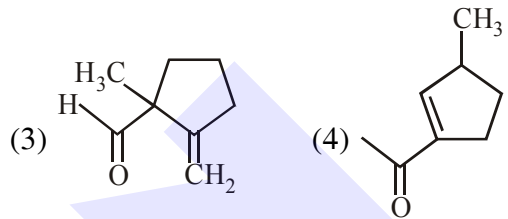
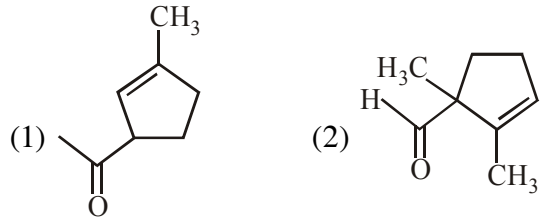
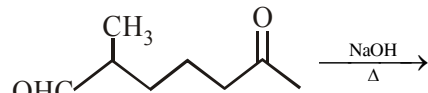
12. निम्न अभिक्रिया में



सर्वोत्तम संयोजन है :

- (1) HCHO तथा MeOH
- (2) HCHO तथा tBuOH
- (3) CH₃CHO तथा MeOH
- (4) CH₃CHO तथा tBuOH

13. निम्न अभिक्रिया में प्राप्त होने वाला मुख्य उत्पाद है :



14. निम्न अभिक्रिया में

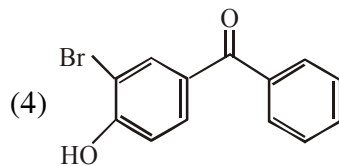
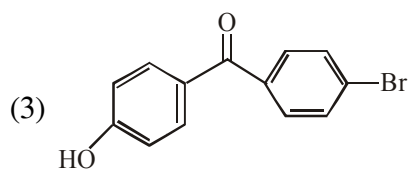
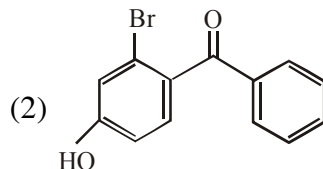
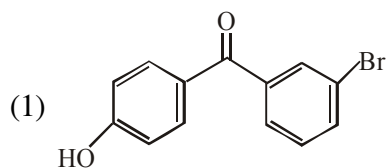


अभिक्रिया की दर निम्न में से किसके लिए उच्चतम है ?

- (1) एसीटोन अवस्तर के रूप में तथा मेथेनॉल स्टॉइकियोमीट्री मात्र में
- (2) प्रोपेनल अवस्तर के रूप में तथा मेथेनॉल स्टॉइकियोमीट्री मात्रा में
- (3) एसीटोन अवस्तर के रूप में तथा मेथेनॉल आधिक्य में
- (4) प्रोपेनल अवस्तर के रूप में तथा मेथेनॉल आधिक्य में

15.

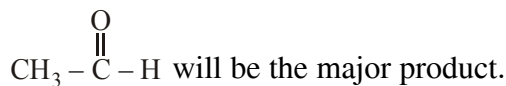
कार्बन टेट्राक्लोराइड में ब्रोमीन के साथ अभिक्रिया करने पर p-हाइड्रॉक्सी बेंजोफेनोन देता है :



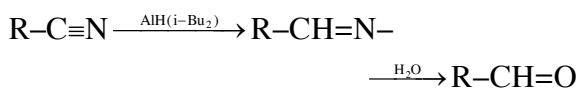
SOLUTION

1. **Ans. (1)**

Aldehyde reacts at a faster rate than keton during aldol and sterically less hindered anion will be a better nucleophile so self aldol at



2. **Ans. (1)**



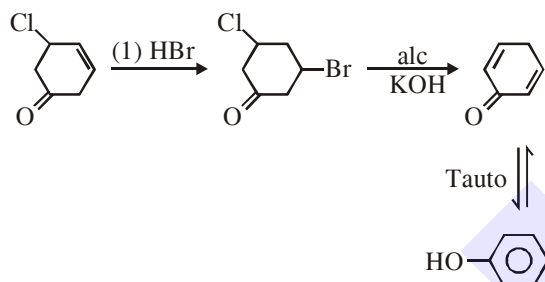
3. **Ans.(3)**

4. **Ans.(4)**

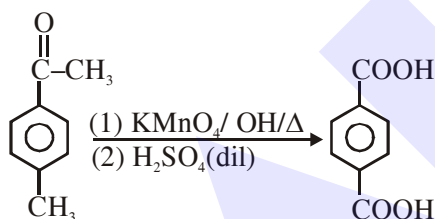
5. **Ans.(2)**

6. **Ans.(4)**

7. **Ans. (1)**

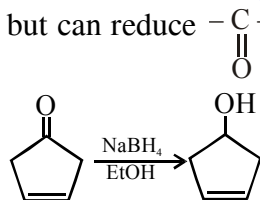


8. **Ans. (2)**

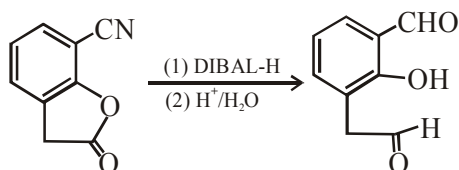


9. **Ans. (4)**

NaBH_4 can not reduce $\text{C}=\text{C}$ but can reduce $-\overset{\text{O}}{\parallel}{\text{C}}-$ into OH .

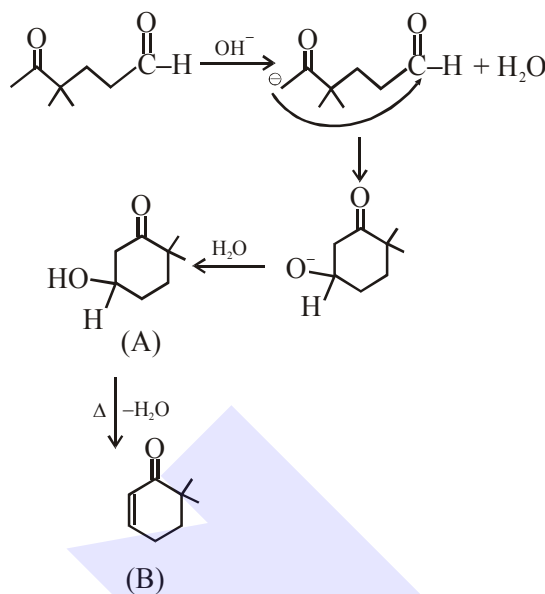


10. **Ans. (3)**

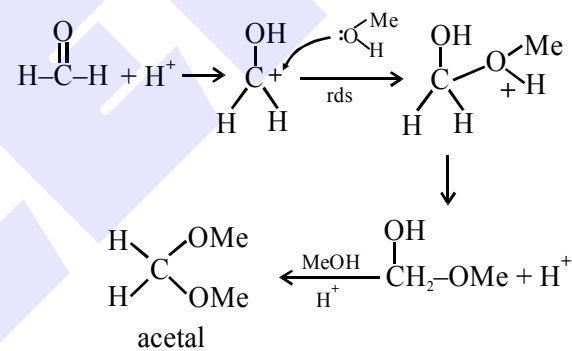


DIBAL-H will reduce cyanides & esters to aldehydes.

11. **Ans. (4)**



12. **Ans. (1)**

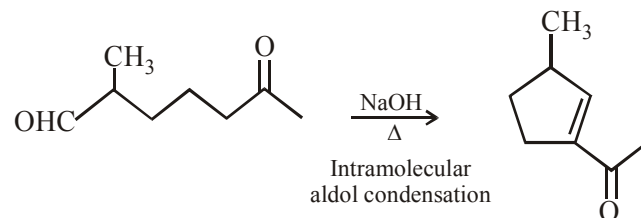


$$\text{rate} \propto \frac{1}{\text{steric crowding of aldehyde}}$$

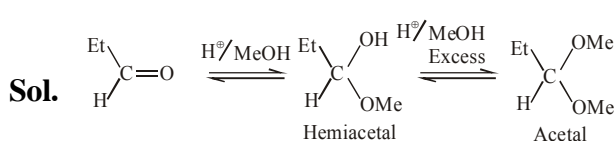
t-butanol can show formation of carbocation in acidic medium.

13. **Ans. (4)**

Sol.

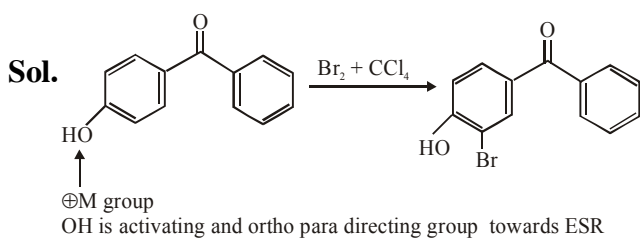


14. **Ans. (4)**

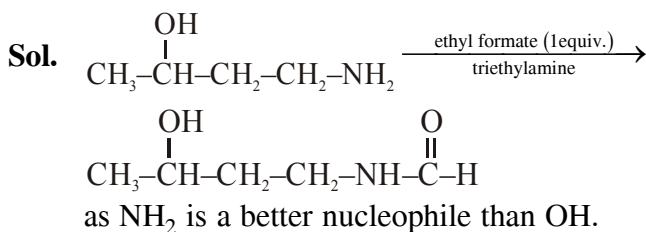


Acetone as substrate is less reactive than propanal towards nucleophilic addition.

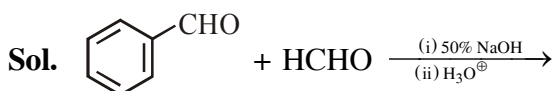
15. Ans. (4)



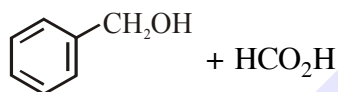
16. Ans. (1)



17. Ans. (4)

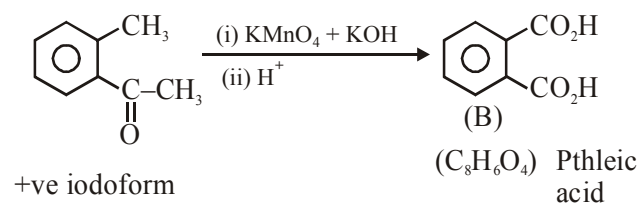


This is cross cannizaro reaction so more reactive carbonyl compound is oxidized and less reactive is reduced so answer is

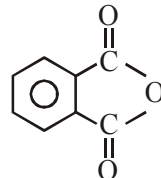


18. Ans. (1)

Sol.



+ve iodoform test



Pthleic anhydride

is used for preparation of phenolphthalein indicator

19. Ans. (2)

