

0620201

B.Sc. VI Semester Examination, June-2024

CHEMISTRY

Question Booklet Series

D

(Organic Synthesis-B)

(To be filled in by the Candidate / निम्न पूर्तियाँ परीक्षार्थी स्वयं भरें)

Roll No. (in figures) .

अनुक्रमांक (अंकों में)

Roll No. (in words)

अनुक्रमांक (शब्दों में)

Enrolment No. (in figures)

| Maximum Marks : 75

| अधिकतम अंक : 75

| Time : 2 Hours

| समय : 2 घण्टे

Name of Exam Centre

परीक्षा केन्द्र का नाम

Signature of Invigilator

कक्ष निरीक्षक के हस्ताक्षर

Instructions to the Examinee :

1. Do not open the booklet unless you are asked to do so.
2. The booklet contains 75 questions. Examinee is required to answer all 75 questions in the OMR Answer-Sheet provided and **not in the question booklet**. All questions carry equal marks.
3. Examine the Booklet and the OMR Answer-Sheet very carefully before you proceed. Faulty question booklet due to missing or duplicate pages/questions or having any other discrepancy should be got immediately replaced.

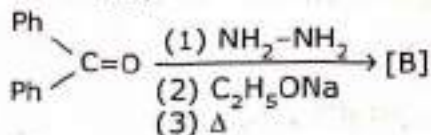
(Remaining Instructions on last page)

परीक्षार्थियों के लिए निर्देश :

1. प्रश्न-पुस्तिका को तब तक न खोलें जब तक आपसे कहा न जाए।
2. प्रश्न-पुस्तिका में 75 प्रश्न हैं। परीक्षार्थी को सभी 75 प्रश्नों को केवल दी गई OMR आन्तर-शीट पर ही हल करना है, प्रश्न-पुस्तिका पर नहीं। सभी प्रश्नों के अंक समान हैं।
3. प्रश्नों के उत्तर अंकित करने से पूर्व प्रश्न-पुस्तिका तथा OMR आन्तर-शीट को सावधानीपूर्वक देख लें। दोषपूर्ण प्रश्न-पुस्तिका जिसमें कुछ भाग छपने से छूट गये हों या प्रश्न एक से अधिक बार छप गए हों या उसमें किसी अन्य प्रकार की कमी हो, उसे तुरन्त बदल लें।

(शेष निर्देश अन्तिम पृष्ठ पर)

1. Reaction



The major product [B] in above

Reaction is:

- (A) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}_2 \\ \diagup \\ \text{Ph} \end{array}$
- (B) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}-\text{OH} \\ \diagup \\ \text{Ph} \end{array}$
- (C) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}-\text{CHO} \\ \diagup \\ \text{Ph} \end{array}$
- (D) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}-\text{COOH} \\ \diagup \\ \text{Ph} \end{array}$

2. Isoprene is a:

- (A) Butene-2
- (B) Isolated diene
- (C) Cumulative diene
- (D) Conjugated diene

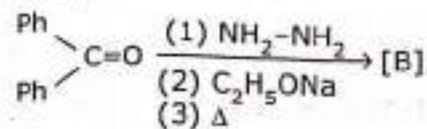
3. Hofmann exhaustive methylation is used to synthesize:

- (A) Alkanes
- (B) Dienes
- (C) Alkenes
- (D) Alkynes

4. Which of the following is an organometallic compound?

- (A) $\text{C}_2\text{H}_5\text{ONa}$
- (B) CaC_2O_4
- (C) CH_3COONa
- (D) $(\text{C}_2\text{H}_5)_4\text{Pb}$

1. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [B] है।

- (A) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}_2 \\ \diagup \\ \text{Ph} \end{array}$
- (B) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}-\text{OH} \\ \diagup \\ \text{Ph} \end{array}$
- (C) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}-\text{CHO} \\ \diagup \\ \text{Ph} \end{array}$
- (D) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}-\text{COOH} \\ \diagup \\ \text{Ph} \end{array}$

2. आइसोप्रीन है:

- (A) ब्यूटीन-2
- (B) विलगित डाइन
- (C) संचयी डाइन
- (D) संयुग्मित डाइन

3. हाफमैन एकजोस्टिव मेथिलीकरण का उपयोग निम्न के संश्लेषण के लिए किया जाता है:

- (A) एल्केन
- (B) डाइन
- (C) एल्कीन
- (D) ऐल्काइन

4. निम्न में से कौन-सा कार्बधात्विक यौगिक है?

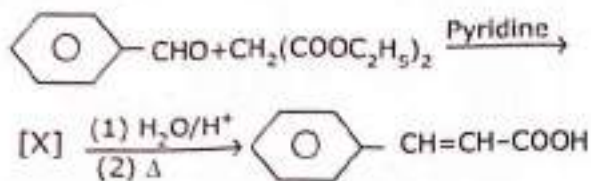
- (A) $\text{C}_2\text{H}_5\text{ONa}$
- (B) CaC_2O_4
- (C) CH_3COONa
- (D) $(\text{C}_2\text{H}_5)_4\text{Pb}$

5. The ester obtained by Reformatsky Reaction.
- α -hydroxy ester
 - β -hydroxy ester
 - α -bromo ester
 - β -bromo ester
6. Aldehyde may be distinguished from ketones by using:
- Fehling's solution
 - Con H_2SO_4
 - Pyrogallol
 - Grignard's Reagent
7. Which of the following is most acidic?
- $\text{CH}_3\text{--CH}_2\text{--COOH}$
 - $\text{CH}_3\text{--}\underset{\text{Br}}{\text{CH}}\text{--COOH}$
 - $\text{CH}_3\text{--}\underset{\text{Cl}}{\text{CH}}\text{--COOH}$
 - $\text{CH}_3\text{--}\underset{\text{F}}{\text{CH}}\text{--COOH}$
8. Which of the following compound is most acidic?
- $\text{CH}_3\text{--CH}_2\text{--CH}_2\text{--COOH}$
 - $\text{CH}_3\text{--CH}_2\text{--}\underset{\text{Br}}{\text{CH}}\text{--COOH}$
 - $\text{CH}_3\text{--}\underset{\text{Br}}{\text{CH}}\text{--CH}_2\text{--COOH}$
 - $\underset{\text{Br}}{\text{CH}_2}\text{--CH}_2\text{--CH}_2\text{--COOH}$
5. रिफोर्मेट्स्की अभिक्रिया के द्वारा कौन-सा एस्टर प्राप्त होता है।
- α -हाइड्रॉक्सी एस्टर
 - β -हाइड्रॉक्सी एस्टर
 - α -ब्रोमो एस्टर
 - β -ब्रोमो एस्टर
6. निम्न में से किस का उपयोग करके एल्डिहाइडों तथा कीटोनों में विभेद किया जा सकता है:
- फेहलिंग विलयन
 - सान्द्र H_2SO_4
 - पाइरोगैलोल
 - ग्रिगनार्ड अभिकर्मक
7. निम्न में से कौन-सा सबसे अधिक अम्लीय है?
- $\text{CH}_3\text{--CH}_2\text{--COOH}$
 - $\text{CH}_3\text{--}\underset{\text{Br}}{\text{CH}}\text{--COOH}$
 - $\text{CH}_3\text{--}\underset{\text{Cl}}{\text{CH}}\text{--COOH}$
 - $\text{CH}_3\text{--}\underset{\text{F}}{\text{CH}}\text{--COOH}$
8. निम्न में से कौन-सा यौगिक सबसे अधिक अम्लीय है?
- $\text{CH}_3\text{--CH}_2\text{--CH}_2\text{--COOH}$
 - $\text{CH}_3\text{--CH}_2\text{--}\underset{\text{Br}}{\text{CH}}\text{--COOH}$
 - $\text{CH}_3\text{--}\underset{\text{Br}}{\text{CH}}\text{--CH}_2\text{--COOH}$
 - $\underset{\text{Br}}{\text{CH}_2}\text{--CH}_2\text{--CH}_2\text{--COOH}$

9. Which of the following compound is most acidic?
 (A) CH_3COOH
 (B) FCH_2COOH
 (C) $\text{CH}_3\text{CH}_2\text{COOH}$
 (D) F_2CHCOOH
10. Which of the following alkaloids is used for Lowering Blood Pressure?
 (A) Quinine
 (B) Reserpine
 (C) Morphine
 (D) Hygrine
11. Which of the following alkaloids produces lung and mouth cancer?
 (A) Nicotine
 (B) Morphine
 (C) Cocaine
 (D) Reserpine
12. The Nitrogen analogues of enols are called
 (A) Enamines
 (B) Dithianes
 (C) Thiols
 (D) Nitrenes
13. $\text{CH}_2 = \overset{\text{O}^-}{\underset{|}{\text{C}}} - \text{CH}_3$ anion is known as
 (A) Vinylate anion
 (B) Acetate anion
 (C) Carboxylate anion
 (D) Enolate anion
9. निम्न में से कौन-सा यौगिक सबसे अधिक अम्लीय है?
 (A) CH_3COOH
 (B) FCH_2COOH
 (C) $\text{CH}_3\text{CH}_2\text{COOH}$
 (D) F_2CHCOOH
10. निम्न में से कौन-सा ऐल्केलॉइड रक्तचाप कम करने के लिए उपयोग किया जाता है?
 (A) कुनैन
 (B) रिसरपाइन
 (C) मॉर्फिन
 (D) हाइग्रिन
11. निम्न में से कौन-सा ऐल्केलॉइड फेफड़े तथा मुँह का कैंसर उत्पन्न करता है?
 (A) निकोटीन
 (B) मॉर्फिन
 (C) कोकीन
 (D) रिसरपाइन
12. इनोल के नाइट्रोजन समजात को कहते हैं:
 (A) इनामीन
 (B) डाइथायीन
 (C) थायोल
 (D) नाइट्रीन
13. $\text{CH}_2 = \overset{\text{O}^-}{\underset{|}{\text{C}}} - \text{CH}_3$ एनायन को कहते हैं :
 (A) विनाइलेट एनायन
 (B) ऐसीटेट एनायन
 (C) कार्बोक्सीलेट एनायन
 (D) इनोलेट एनायन

14. Malonic ester on hydrolysis and heat gives:
- Acetic acid
 - Malonic acid
 - Succinic acid
 - Propanoic acid
15. Which of the following is not Reactive methylene group compound?
- Ethyl acetoacetate
 - Acetone
 - Diethyl malonate
 - Cyanoacetic ester
16. Acid halide reacts with Alcohol to form:
- Ester
 - Aldehyde
 - Ketone
 - Carboxylic acid
17. Which of the following compound on treatment with NaHCO_3 will give CO_2 ?
- Ethylamine
 - Acetone
 - Methanol
 - Acetic acid
14. मैलोनिक एस्टर के जल अपघटन से प्राप्त यौगिक को गर्म करने पर प्राप्त होता है:
- ऐसीटिक अम्ल
 - मैलोनिक अम्ल
 - सक्सिनिक अम्ल
 - प्रोपेनोइक अम्ल
15. निम्न में से कौन यौगिक क्रियाशील मेथिलीन समूह यौगिक नहीं है?
- एथिल ऐसीटो ऐसीटेट
 - ऐसीटोन
 - डाइ ऐथिल मैलोनेट
 - सायनो ऐसीटिक एस्टर
16. एसिड हैलाइड ऐल्कोहल के साथ क्रिया करके देता है:
- एस्टर
 - एल्डिहाइड
 - कीटोन
 - कार्बोक्सिलिक अम्ल
17. निम्न में से कौन सा यौगिक NaHCO_3 के साथ क्रिया करके CO_2 देता है?
- एथिल एमीन
 - ऐसीटोन
 - मेथेनॉल
 - ऐसीटिक अम्ल

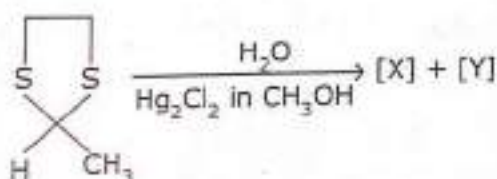
18. Reaction



This Reaction is an example of a Reaction which is:

- (A) Claisen Condensation
- (B) Reformatsky Reaction
- (C) Perkin's Reaction
- (D) Knoevenagel Reaction

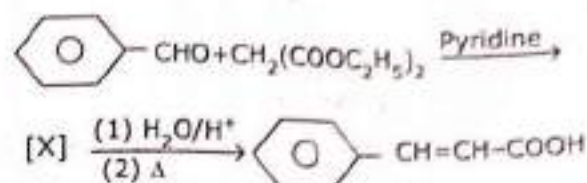
19. Reaction



This compound [X] and [Y] are:

- (A) $\text{CH}_3\text{CH}_2\text{SH}$ and $\text{HSCH}_2\text{CH}_2\text{OH}$
- (B) $\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}-\text{H}$ and $\text{HSCH}_2\text{CH}_2\text{SH}$
- (C) $\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}$ and $\text{HS}-\text{CH}_2\text{CH}_2\text{CH}_2\text{SH}$
- (D) $\text{CH}_3\text{CH}_2\text{SH}$ and $\text{HSCH}_2-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}$

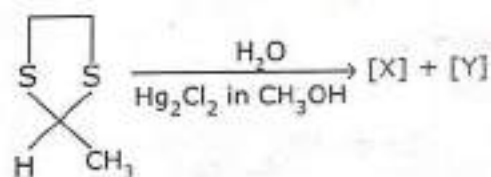
18. अभिक्रिया



उपरोक्त अभिक्रिया निम्न में से किसका उदाहरण है?

- (A) क्लेजिन संघनन
- (B) रिफॉर्मेट्स्की अभिक्रिया
- (C) पर्किन अभिक्रिया
- (D) नोवेनेजेल अभिक्रिया

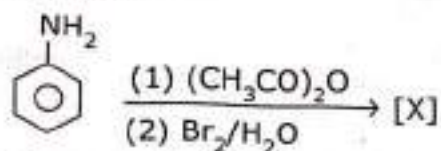
19. अभिक्रिया



यौगिक [X] एवं [Y] हैं-

- (A) $\text{CH}_3\text{CH}_2\text{SH}$ और $\text{HSCH}_2\text{CH}_2\text{OH}$
- (B) $\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}-\text{H}$ और $\text{HSCH}_2\text{CH}_2\text{SH}$
- (C) $\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}$ और $\text{HS}-\text{CH}_2\text{CH}_2\text{CH}_2\text{SH}$
- (D) $\text{CH}_3\text{CH}_2\text{SH}$ और $\text{HSCH}_2-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}$

20. Reaction

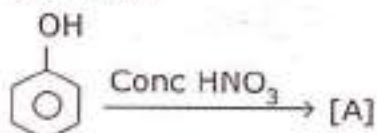


The major product [X] in above

Reaction is:

- (A)
- (B)
- (C)
- (D)

21. Reaction

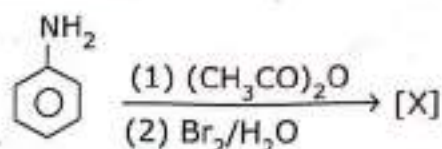


The major product [A] in above

Reaction is:

- (A)
- (B)
- (C)
- (D)

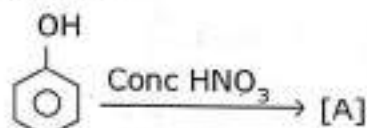
20. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [X] है।

- (A)
- (B)
- (C)
- (D)

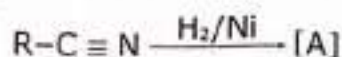
21. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।

- (A)
- (B)
- (C)
- (D)

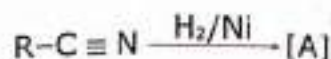
22. Reaction



The major product [A] in above Reaction is:

- (A) R-CHO
- (B) R-COOH
- (C) R-CH₂-CH₂-NH₂
- (D) R-CH₂-NH₂

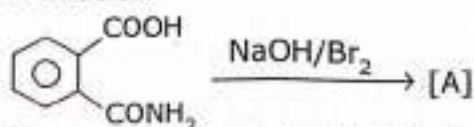
22. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।

- (A) R-CHO
- (B) R-COOH
- (C) R-CH₂-CH₂-NH₂
- (D) R-CH₂-NH₂

23. Reaction

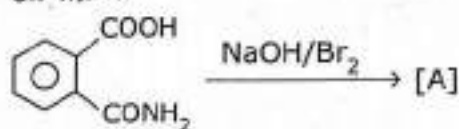


The major product [A] in above

Reaction is:

- (A)
- (B)
- (C)
- (D)

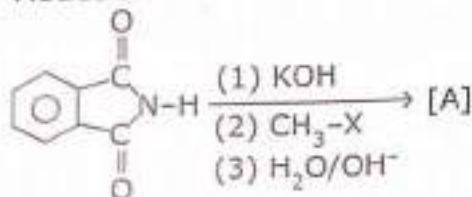
23. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।

- (A)
- (B)
- (C)
- (D)

24. Reaction

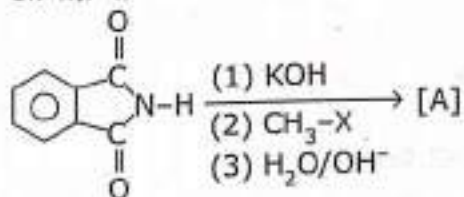


The major product [A] in above

Reaction is:

- (A) CH₃-NH₂
- (B) CH₃-OH
- (C) CH₃-CH₃
- (D) CH₃CH₂OH

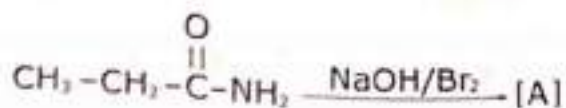
24. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।

- (A) CH₃-NH₂
- (B) CH₃-OH
- (C) CH₃-CH₃
- (D) CH₃CH₂OH

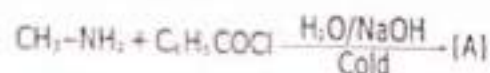
25. Reaction



The major product [A] in above Reaction is:

- (A) $\text{CH}_3\text{CH}_2\text{CHO}$
- (B) $\text{CH}_3\text{CH}_2\text{COOH}$
- (C) $\text{CH}_3\text{CH}_2\text{NH}_2$
- (D) $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$

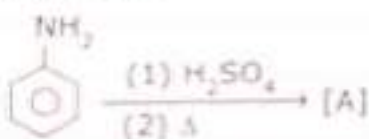
26. Reaction



The major product [A] in above Reaction is:

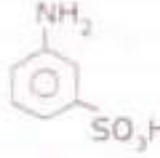
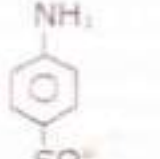
- (A) $\text{CH}_3-\text{NHCOC}_6\text{H}_5$
- (B) $\text{C}_6\text{H}_5\text{COOH}$
- (C) $\text{CH}_3-\text{CH}_2\text{COOH}$
- (D) $\text{C}_6\text{H}_5\text{CONH}_2$

27. Reaction

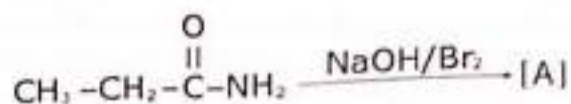


The major product [A] in above

Reaction is:

- (A) 
- (B) 
- (C) 
- (D) 

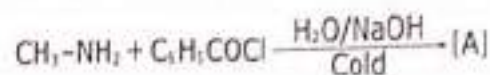
25. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।

- (A) $\text{CH}_3\text{CH}_2\text{CHO}$
- (B) $\text{CH}_3\text{CH}_2\text{COOH}$
- (C) $\text{CH}_3\text{CH}_2\text{NH}_2$
- (D) $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$

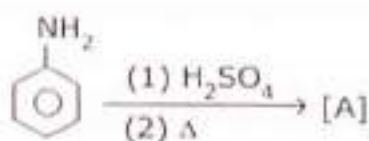
26. अभिक्रिया



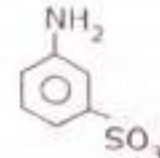
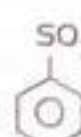
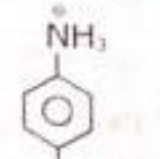
उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।

- (A) $\text{CH}_3-\text{NHCOC}_6\text{H}_5$
- (B) $\text{C}_6\text{H}_5\text{COOH}$
- (C) $\text{CH}_3-\text{CH}_2\text{COOH}$
- (D) $\text{C}_6\text{H}_5\text{CONH}_2$

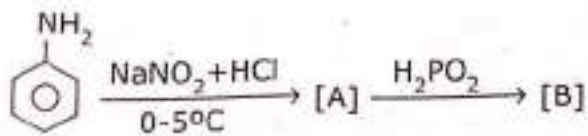
27. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।

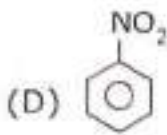
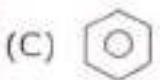
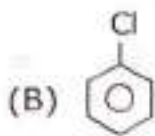
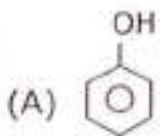
- (A) 
- (B) 
- (C) 
- (D) 

28. Reaction

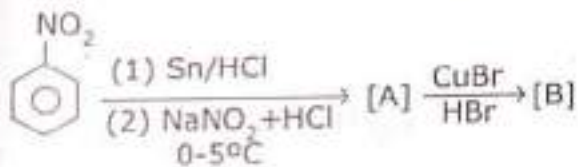


The major product [B] in above

Reaction is:

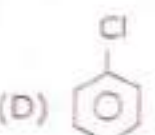
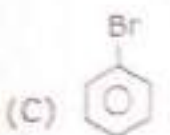
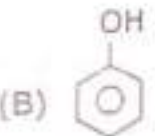
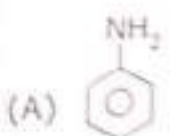


29. Reaction

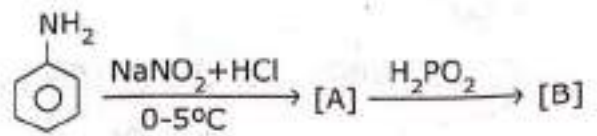


The major product [B] in above

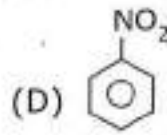
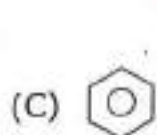
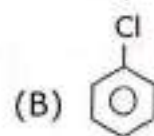
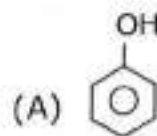
Reaction is:



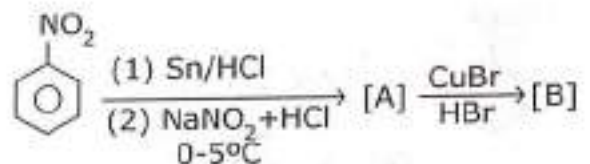
28. अभिक्रिया



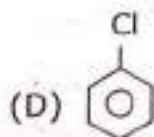
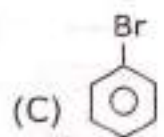
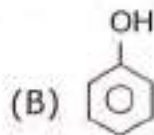
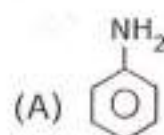
उपरोक्त अभिक्रिया में मुख्य उत्पाद [B] है।



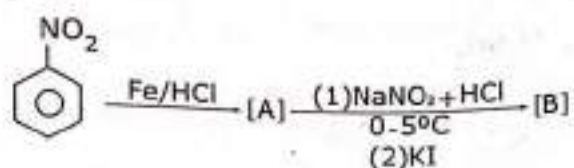
29. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [B] है।

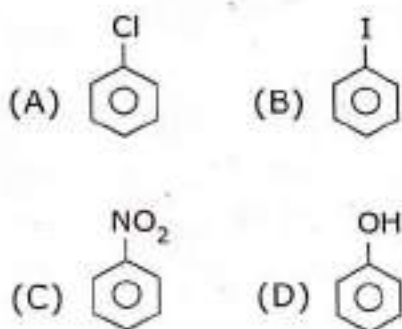


30. Reaction

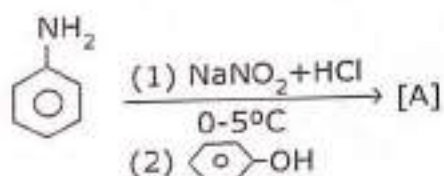


The major product [B] in above

reaction is:

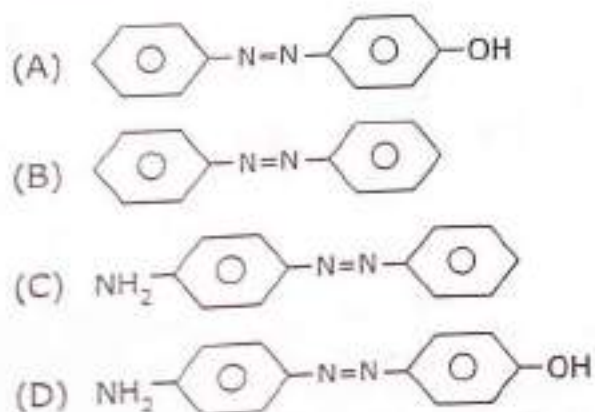


31. Reaction

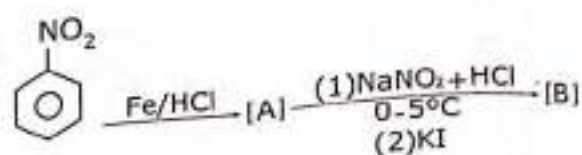


The major product [A] in above

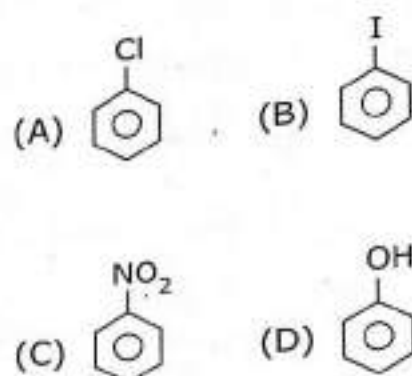
reaction is:



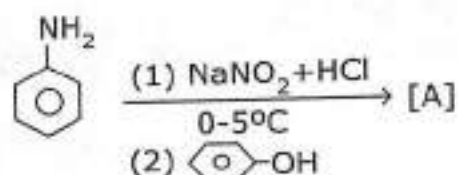
30. अभिक्रिया



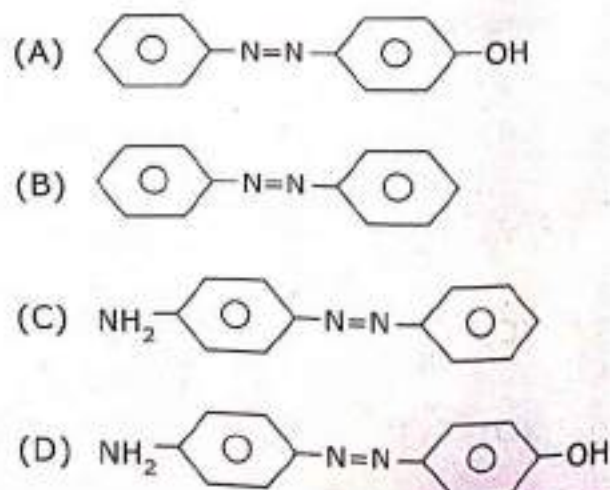
उपरोक्त अभिक्रिया में मुख्य उत्पाद [B] है।



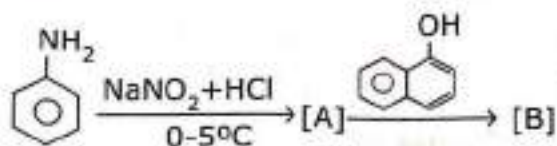
31. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।



32. Reaction

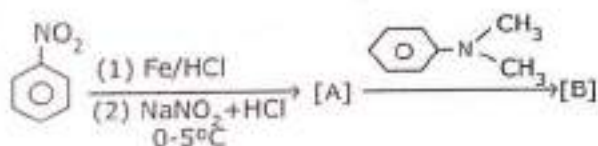


The major product [B] in above

reaction is:

- (A)
- (B)
- (C)
- (D)

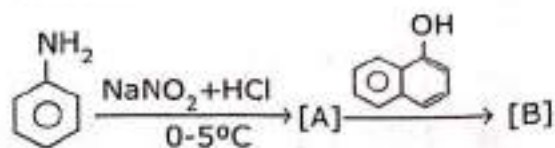
33. Reaction



The major product [B] in above reaction is:

- (A)
- (B)
- (C)
- (D)

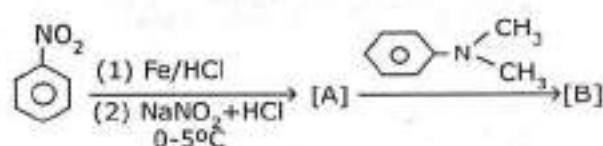
32. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [B] है।

- (A)
- (B)
- (C)
- (D)

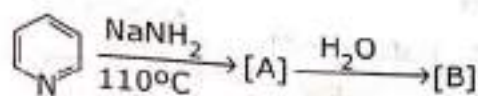
33. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [B] है।

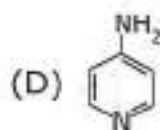
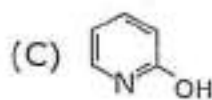
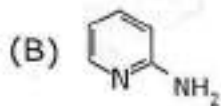
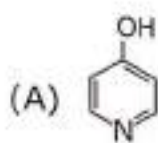
- (A)
- (B)
- (C)
- (D)

34. Reaction

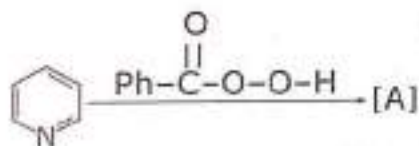


The major product [B] in above

reaction is:

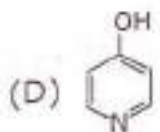
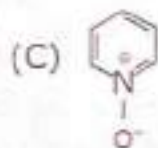
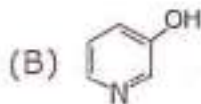
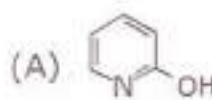


35. Reaction

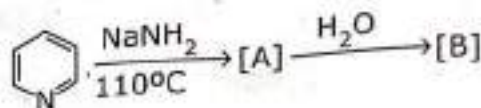


The major product [A] in above

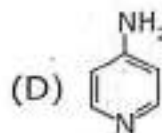
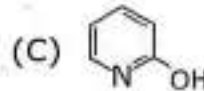
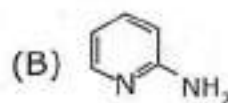
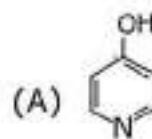
reaction is:



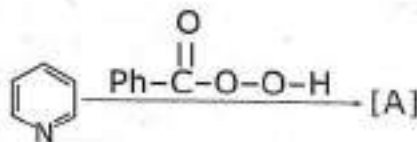
34. अभिक्रिया



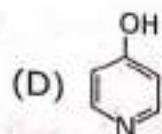
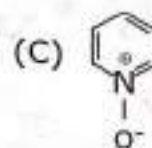
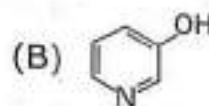
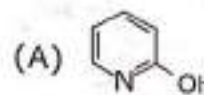
उपरोक्त अभिक्रिया में मुख्य उत्पाद [B] है।



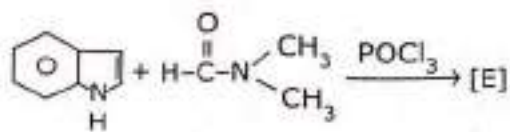
35. अभिक्रिया



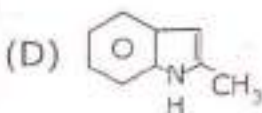
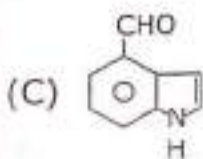
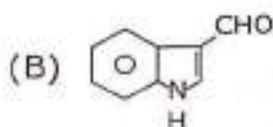
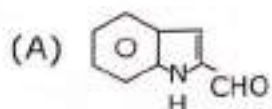
उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।



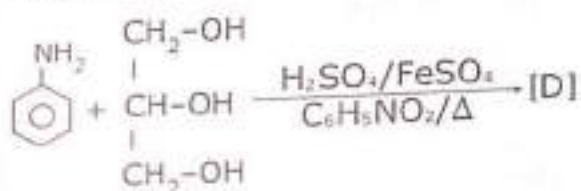
36. Reaction



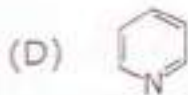
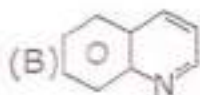
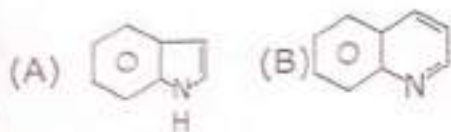
The major product [E] in above reaction is:



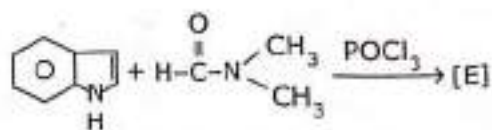
37. Reaction



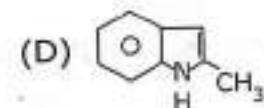
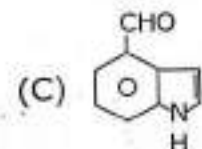
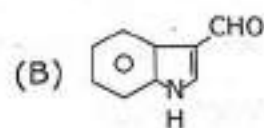
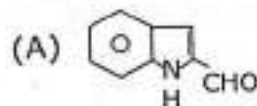
The major product [D] in above reaction is:



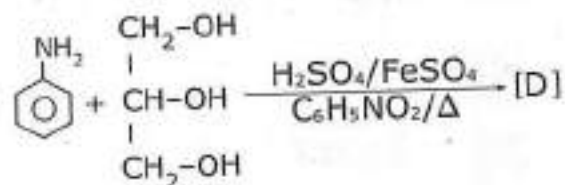
36. अभिक्रिया



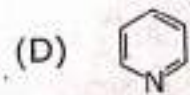
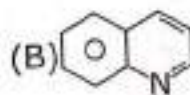
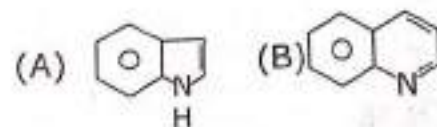
उपरोक्त अभिक्रिया में मुख्य उत्पाद [E] है।



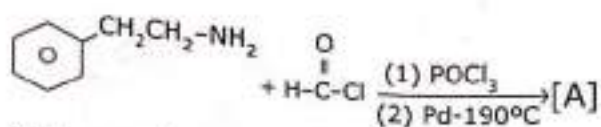
37. अभिक्रिया



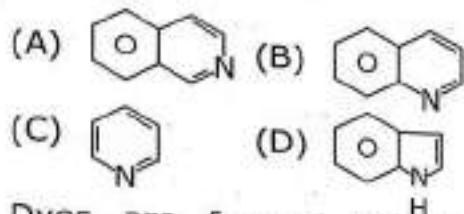
उपरोक्त अभिक्रिया में मुख्य उत्पाद [D] है।



38. Reaction



The major product [A] in above reaction is:



39. Dyes are formed when Benzene diazonium salt reacts with:

- (A) Phenol
 (B) Aldehyde
 (C) Ketone
 (D) None

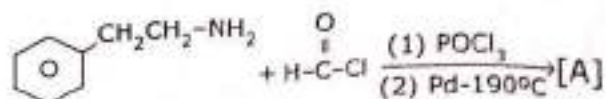
40. Which of the following compounds is most basic?

- (A) $\text{C}_6\text{H}_5\text{NH}_2$
 (B) CH_3NH_2
 (C) $\text{CH}_3\text{CH}_2\text{NH}_2$
 (D) $(\text{CH}_3)_2\text{NH}$

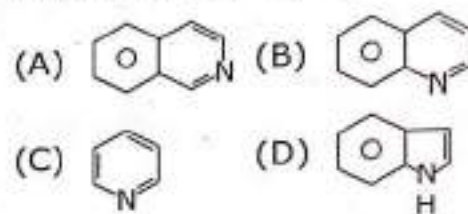
41. The reaction of ethyl amine with CHCl_3 and alcoholic KOH gives?

- (A) $\text{C}_2\text{H}_5\text{CN}$
 (B) CH_3NC
 (C) CH_3CN
 (D) $\text{C}_2\text{H}_5\text{NC}$

38. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।



39. रंजक बनते हैं जब बेन्जीन डाइऐजोनियम लवण क्रिया करता है:

- (A) फिनोल के साथ
 (B) ऐल्डिहाइड के साथ
 (C) कीटोन के साथ
 (D) कोई नहीं

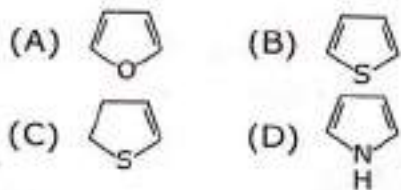
40. निम्न यौगिकों में से कौन-सा यौगिक सबसे अधिक क्षारीय है?

- (A) $\text{C}_6\text{H}_5\text{NH}_2$
 (B) CH_3NH_2
 (C) $\text{CH}_3\text{CH}_2\text{NH}_2$
 (D) $(\text{CH}_3)_2\text{NH}$

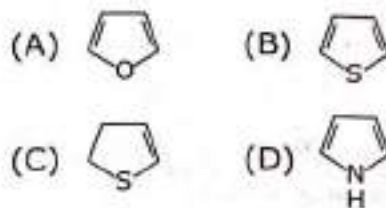
41. ऐथील ऐमीन, CHCl_3 व ऐल्कोहॉलिक KOH के साथ क्रिया करके देती है:

- (A) $\text{C}_2\text{H}_5\text{CN}$
 (B) CH_3NC
 (C) CH_3CN
 (D) $\text{C}_2\text{H}_5\text{NC}$

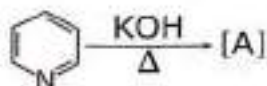
42. Which of the following compounds is not aromatic?



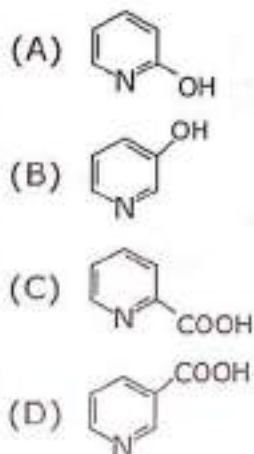
42. निम्न में से कौन-सा यौगिक ऐरोमैटिक नहीं है?



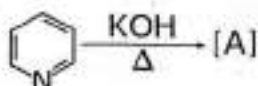
43. Reaction



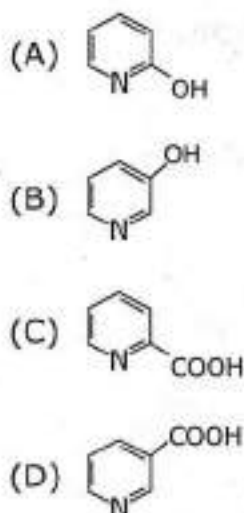
The major product [A] in above reaction is:



43. अभिक्रिया



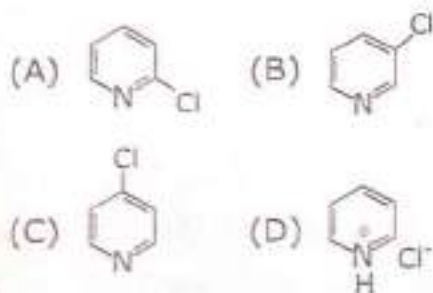
उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।



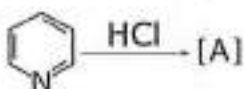
44. Reaction



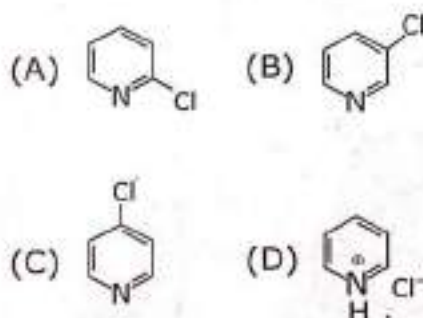
The major product [A] in above reaction is:



44. अभिक्रिया

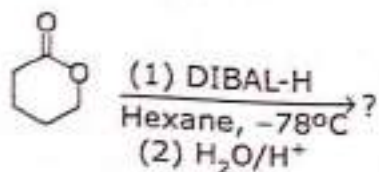


उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।



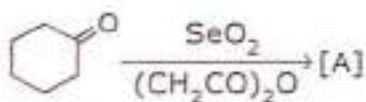
45. Predict the product formed in given

Reduction



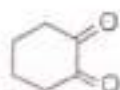
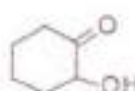
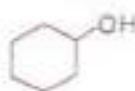
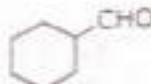
- (A) Benzoic acid
- (B) $\text{HO}-(\text{CH}_2)_4-\text{COOH}$
- (C) $\text{HO}-(\text{CH}_2)_4-\text{CHO}$
- (D) $\text{HO}-(\text{CH}_2)_4-\text{CH}_2\text{OH}$

46. Reaction

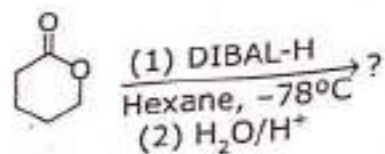


The compound [A] in above Reaction

is:

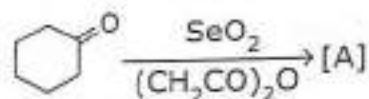
- (A) 
- (B) 
- (C) 
- (D) 

45. निम्न अपचयन में उत्पाद ज्ञात कीजिए-

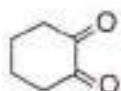
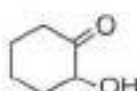
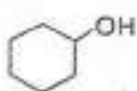
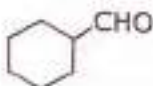


- (A) बेंजोइक अम्ल
- (B) $\text{HO}-(\text{CH}_2)_4-\text{COOH}$
- (C) $\text{HO}-(\text{CH}_2)_4-\text{CHO}$
- (D) $\text{HO}-(\text{CH}_2)_4-\text{CH}_2\text{OH}$

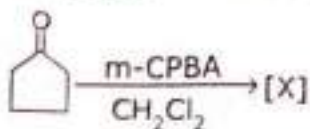
46. अभिक्रिया



उपरोक्त अभिक्रिया में यौगिक [A] है-

- (A) 
- (B) 
- (C) 
- (D) 

47. Reaction

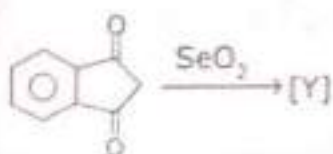


The compound [X] in above Reaction

is:

- (A)
- (B)
- (C)
- (D)

48. Reaction

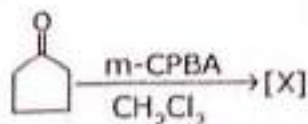


The compound [Y] in above Reaction

is:

- (A)
- (B)
- (C)
- (D)

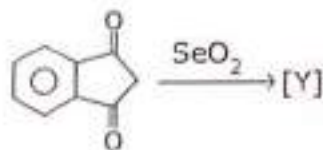
47. अभिक्रिया



उपरोक्त अभिक्रिया में यौगिक [X] है-

- (A)
- (B)
- (C)
- (D)

48. अभिक्रिया

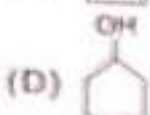
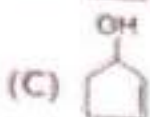
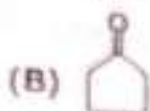
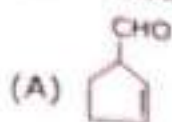
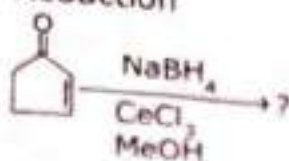


उपरोक्त अभिक्रिया में यौगिक [Y] है-

- (A)
- (B)
- (C)
- (D)

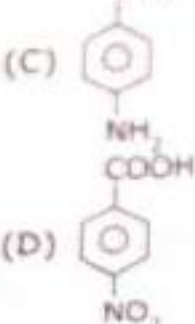
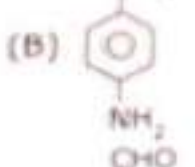
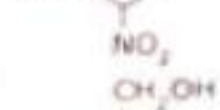
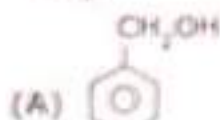
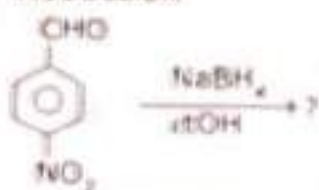
49. Predict the product formed in Given

Reduction

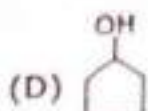
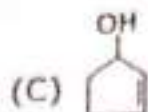
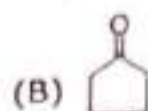
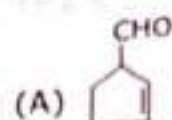
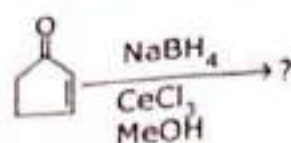


50. Predict the product formed in Given

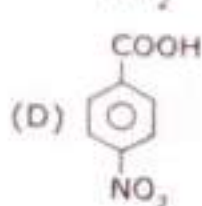
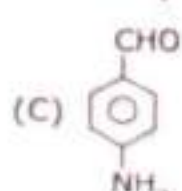
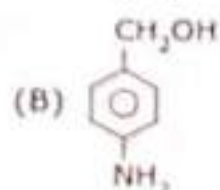
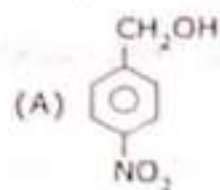
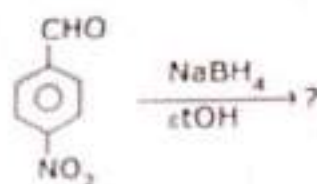
Reduction



49. निम्न अपचयन में उत्पाद ज्ञात कीजिए

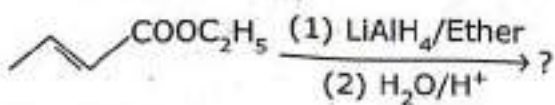


50. निम्न अपचयन में उत्पाद ज्ञात कीजिए

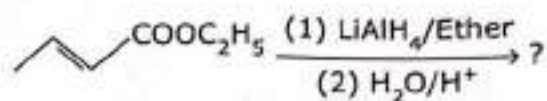


51. Predict the product formed in Given

Reduction

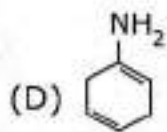
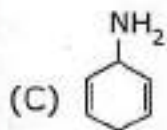
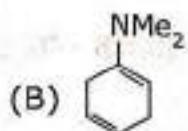
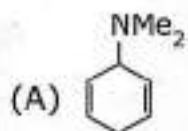
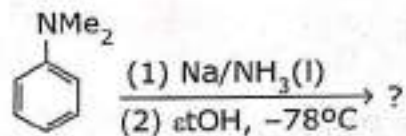


51. निम्न अपचयन में उत्पाद ज्ञात कीजिए

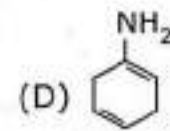
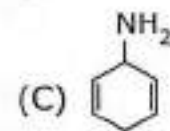
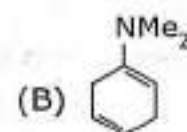
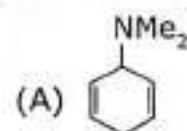
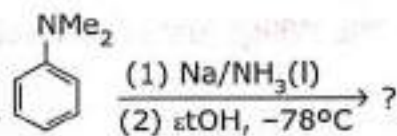


52. Predict the product formed in Given

Reduction

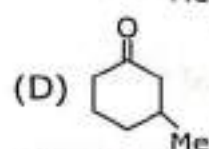
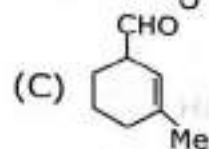
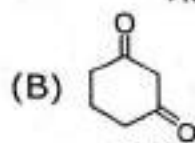
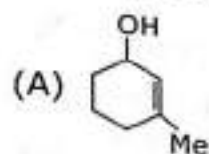
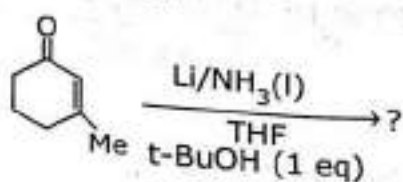


52. निम्न अपचयन में उत्पाद ज्ञात कीजिए

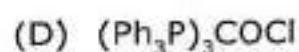
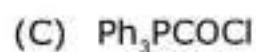
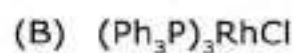
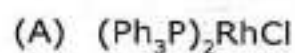


53. Predict the product formed in Given

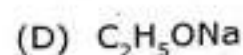
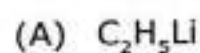
Reduction



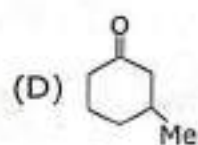
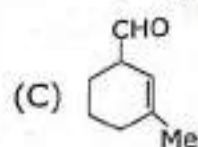
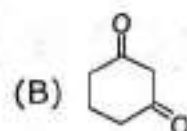
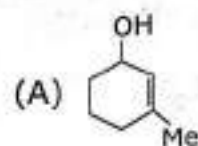
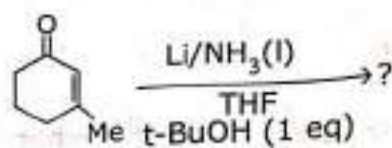
54. Identify the Wilkinson's catalyst?



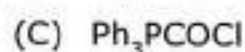
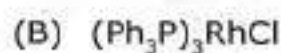
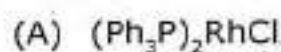
55. Which one of the following is not an organometallic compound?



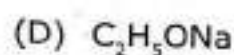
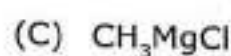
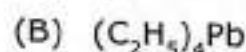
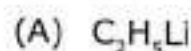
53. निम्न अपचयन में उत्पाद ज्ञात कीजिए



54. निम्न में से कौन सा विलकिन्सन उत्प्रेरक है।



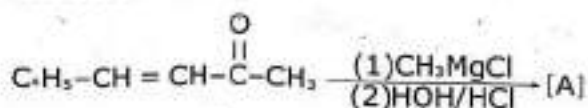
55. निम्न में से कौन-सा कार्ब-धात्विक यौगिक नहीं है।



56. Dimethyl zinc was discovered by:

- (A) Frankland
- (B) Grignard
- (C) Haworth
- (D) Graebe

57. Reaction

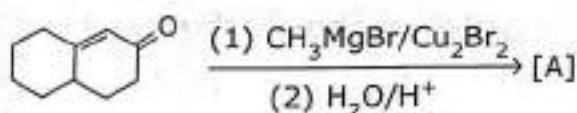


The final product [A] of this Reaction

is:

- (A) $\text{C}_6\text{H}_5-\underset{\text{CH}_3}{\underset{\parallel}{\text{CH}}}-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_3$
- (B) $\text{C}_6\text{H}_5-\text{CH}=\text{CH}-\underset{\text{OH}}{\underset{\parallel}{\text{CH}}}-\text{CH}_3$
- (C) $\text{C}_6\text{H}_5-\text{CH}=\text{CH}-\underset{\text{CH}_3}{\underset{\parallel}{\text{CH}}}-\text{CH}_3$
- (D) $\text{C}_6\text{H}_5-\underset{\text{CH}_3}{\underset{\parallel}{\text{C}}}-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_3$

58. Reaction



The final product of this Reaction [A]

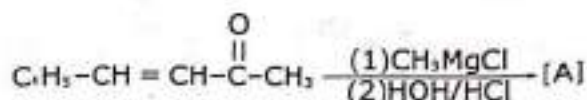
is:

- (A)
- (B)
- (C)
- (D)

56. डाई मेथिल ज़िंक की खोज किसके द्वारा की गयी?

- (A) फ्रेन्कलैण्ड
- (B) ग्रिगनार्ड
- (C) हावर्थ
- (D) ग्रेब

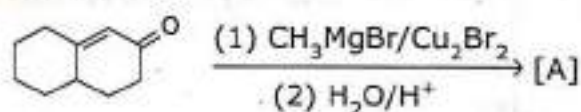
57. अभिक्रिया



इस अभिक्रिया का अंतिम उत्पाद [A] है।

- (A) $\text{C}_6\text{H}_5-\underset{\text{CH}_3}{\underset{\parallel}{\text{CH}}}-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_3$
- (B) $\text{C}_6\text{H}_5-\text{CH}=\text{CH}-\underset{\text{OH}}{\underset{\parallel}{\text{CH}}}-\text{CH}_3$
- (C) $\text{C}_6\text{H}_5-\text{CH}=\text{CH}-\underset{\text{CH}_3}{\underset{\parallel}{\text{CH}}}-\text{CH}_3$
- (D) $\text{C}_6\text{H}_5-\underset{\text{CH}_3}{\underset{\parallel}{\text{C}}}-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_3$

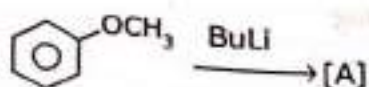
58. अभिक्रिया



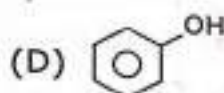
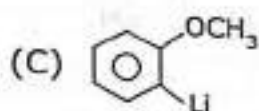
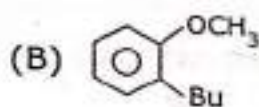
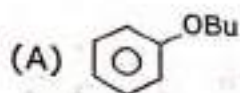
इस अभिक्रिया का अंतिम उत्पाद [A] है।

- (A)
- (B)
- (C)
- (D)

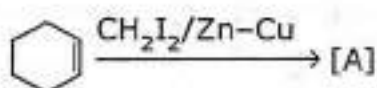
59. Reaction



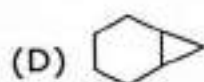
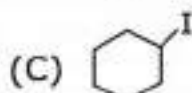
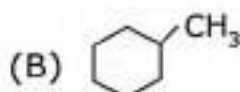
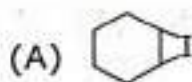
The final product [A] of this Reaction is:



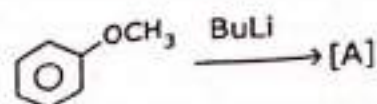
60. Reaction



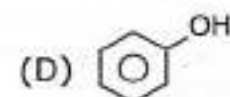
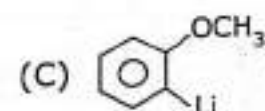
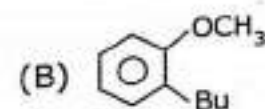
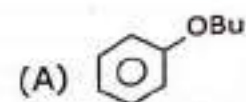
The compound [A] in above Reaction is:



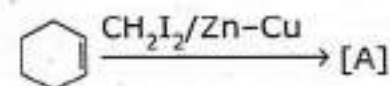
59. अभिक्रिया



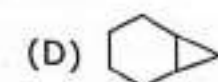
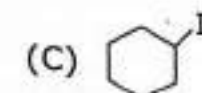
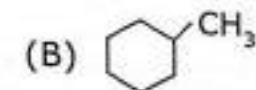
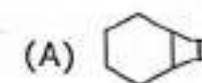
उपरोक्त अभिक्रिया का अंतिम उत्पाद [A] है।



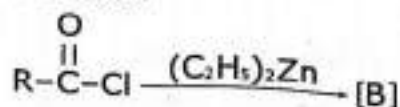
60. अभिक्रिया



उपरोक्त अभिक्रिया में यौगिक [A] है-



61. Reaction



The compound [B] in above Reaction

is:

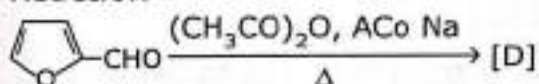
- (A) $\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}$
 (B) $\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{C}_2\text{H}_5$
 (C) $\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_3$
 (D) $\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{NH}_2$

62. Reaction $\text{C}_6\text{H}_5\text{CHO} + \text{CH}_3\text{CHO} \xrightarrow[\Delta]{\text{DiI NaOH}} [\text{C}]$

The major product [C] in above Reaction is:

- (A) $\text{C}_6\text{H}_5-\text{CH}_2-\text{CH}_2-\text{CH}_2\text{OH}$
 (B) $\text{C}_6\text{H}_5-\text{CH}=\text{CH}-\text{CH}_2\text{OH}$
 (C) $\text{C}_6\text{H}_5-\text{CH}=\text{CH}-\text{CHO}$
 (D) $\text{C}_6\text{H}_5-\text{CH}=\text{CH}-\text{C}_6\text{H}_5$

63. Reaction

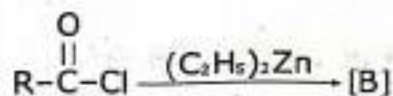


The major product [D] in above

Reaction is:

- (A)  $\text{CH}=\text{CH}-\text{COOH}$
 (B)  $\text{CH}=\text{CH}-\text{CH}_2\text{OH}$
 (C)  CH_2OH
 (D)  COOH

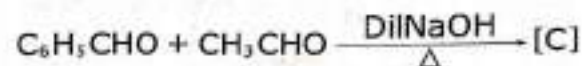
61. अभिक्रिया



उपरोक्त अभिक्रिया में यौगिक [B] है-

- (A) $\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}$
 (B) $\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{C}_2\text{H}_5$
 (C) $\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_3$
 (D) $\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{NH}_2$

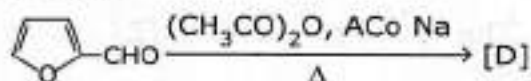
62. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [C] है-

- (A) $\text{C}_6\text{H}_5-\text{CH}_2-\text{CH}_2-\text{CH}_2\text{OH}$
 (B) $\text{C}_6\text{H}_5-\text{CH}=\text{CH}-\text{CH}_2\text{OH}$
 (C) $\text{C}_6\text{H}_5-\text{CH}=\text{CH}-\text{CHO}$
 (D) $\text{C}_6\text{H}_5-\text{CH}=\text{CH}-\text{C}_6\text{H}_5$

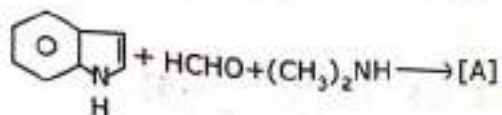
63. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [D] है-

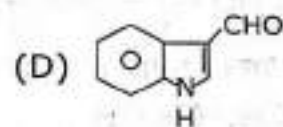
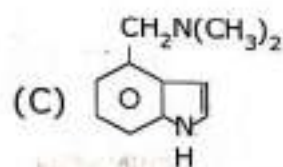
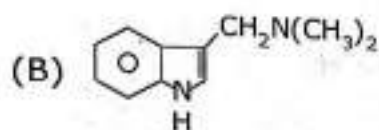
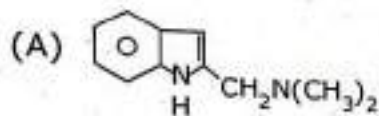
- (A)  $\text{CH}=\text{CH}-\text{COOH}$
 (B)  $\text{CH}=\text{CH}-\text{CH}_2\text{OH}$
 (C)  CH_2OH
 (D)  COOH

64. Reaction

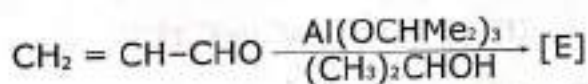


The major product [A] in above

Reaction is:

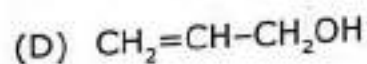
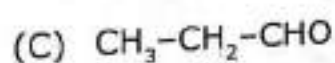
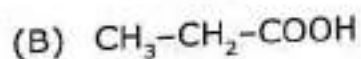
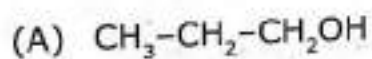


65. Reaction

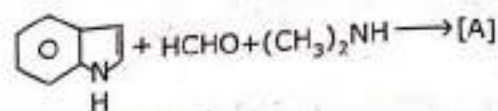


The major product [E] in above

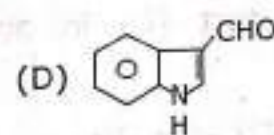
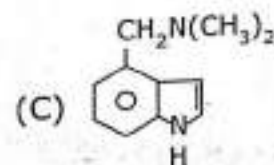
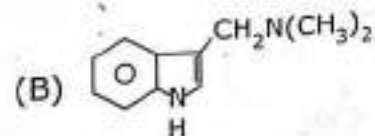
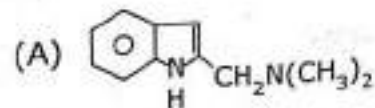
Reaction is:



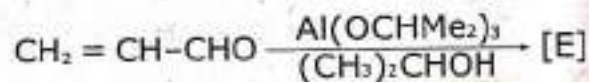
64. अभिक्रिया



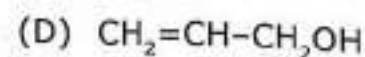
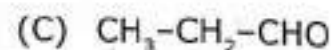
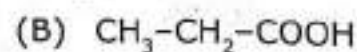
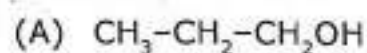
उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है-



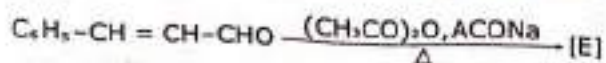
65. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [E] है-



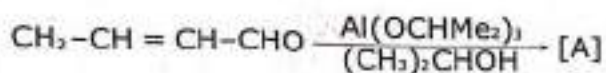
66. Reaction



The major product [E] in above Reaction is:

- (A) $C_6H_5-CH=CH-CH=CH-COOH$
- (B) $C_6H_5-CH=CH-CH=CH-CHO$
- (C) $C_6H_5-CH=CH-CH=CH-CH_2OH$
- (D) $C_6H_5-CH_2-CH_2-CHO$

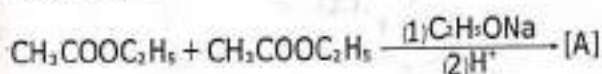
67. Reaction



The major product [A] in above Reaction is:

- (A) $CH_3-CH_2-CH_2-COOH$
- (B) $CH_3-CH_2-CH_2-CHO$
- (C) $CH_3-CH=CH-CH_2OH$
- (D) $CH_3-CH=CH-COOH$

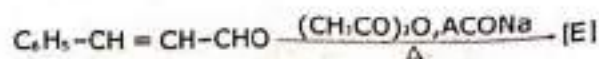
68. Reaction



The Product [A] in above Reaction is:

- (A) $CH_3COCH_2COOC_2H_5$
- (B) $C_2H_5COCH_2COOC_2H_5$
- (C) $CH_3-\overset{OH}{\underset{|}{CH}}-CH_2-COOC_2H_5$
- (D) $HO-CH_2-CO-CH_2-COOC_2H_5$

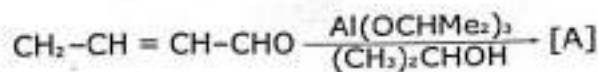
66. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [E] है-

- (A) $C_6H_5-CH=CH-CH=CH-COOH$
- (B) $C_6H_5-CH=CH-CH=CH-CHO$
- (C) $C_6H_5-CH=CH-CH=CH-CH_2OH$
- (D) $C_6H_5-CH_2-CH_2-CHO$

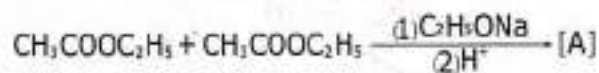
67. अभिक्रिया



उपरोक्त अभिक्रिया में उत्पाद [A] है-

- (A) $CH_3-CH_2-CH_2-COOH$
- (B) $CH_3-CH_2-CH_2-CHO$
- (C) $CH_3-CH=CH-CH_2OH$
- (D) $CH_3-CH=CH-COOH$

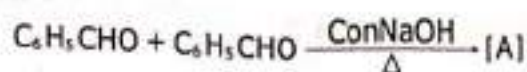
68. अभिक्रिया



उपरोक्त अभिक्रिया में उत्पाद [A] है-

- (A) $CH_3COCH_2COOC_2H_5$
- (B) $C_2H_5COCH_2COOC_2H_5$
- (C) $CH_3-\overset{OH}{\underset{|}{CH}}-CH_2-COOC_2H_5$
- (D) $HO-CH_2-CO-CH_2-COOC_2H_5$

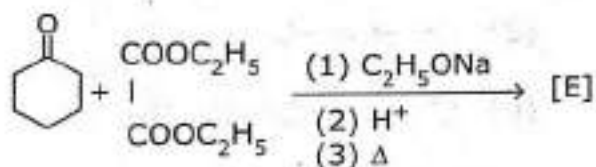
69. Reaction



The product [A] in above Reaction is:

- (A) $\text{C}_6\text{H}_5\text{CH}_2\text{OH}$
- (B) $\text{C}_6\text{H}_5\text{COONa}$
- (C) Both $\text{C}_6\text{H}_5\text{CH}_2\text{OH}$ and $\text{C}_6\text{H}_5\text{COONa}$
- (D) CH_3COOH

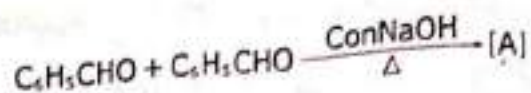
70. Reaction



The product [E] in above Reaction is:

- (A)
- (B)
- (C)
- (D)

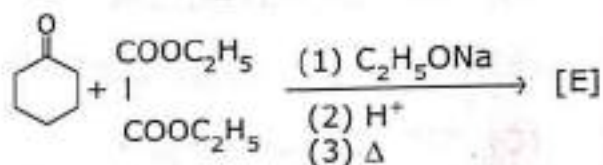
69. अभिक्रिया



उपरोक्त अभिक्रिया में उत्पाद [A] है-

- (A) $\text{C}_6\text{H}_5\text{CH}_2\text{OH}$
- (B) $\text{C}_6\text{H}_5\text{COONa}$
- (C) Both $\text{C}_6\text{H}_5\text{CH}_2\text{OH}$ and $\text{C}_6\text{H}_5\text{COONa}$
- (D) CH_3COOH

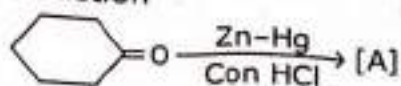
70. अभिक्रिया



उपरोक्त अभिक्रिया में उत्पाद [E] है-

- (A)
- (B)
- (C)
- (D)

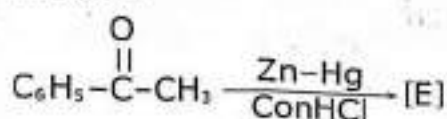
71. Reaction



The product [A] in above Reaction is:

- (A)
- (B)
- (C)
- (D)

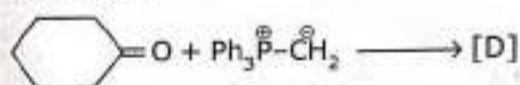
72. Reaction



The major product [E] in above Reaction is:

- (A) $\text{C}_6\text{H}_5-\text{CH}_2-\text{CH}_3$
- (B) $\text{C}_6\text{H}_5-\underset{\text{OH}}{\text{CH}}-\text{CH}_3$
- (C) $\text{C}_6\text{H}_5-\text{CH}_2-\text{CH}_2\text{OH}$
- (D) $\text{C}_6\text{H}_5-\text{CH}_2-\text{COOH}$

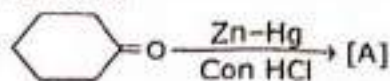
73. Reaction



The major product [D] in above Reaction is:

- (A)
- (B)
- (C)
- (D)

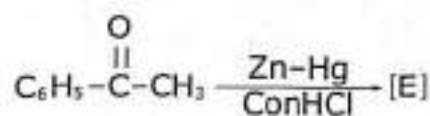
71. अभिक्रिया



उपरोक्त अभिक्रिया में उत्पाद [A] है-

- (A)
- (B)
- (C)
- (D)

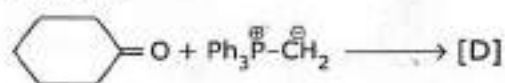
72. अभिक्रिया



उपरोक्त अभिक्रिया में उत्पाद [E] है-

- (A) $\text{C}_6\text{H}_5-\text{CH}_2-\text{CH}_3$
- (B) $\text{C}_6\text{H}_5-\underset{\text{OH}}{\text{CH}}-\text{CH}_3$
- (C) $\text{C}_6\text{H}_5-\text{CH}_2-\text{CH}_2\text{OH}$
- (D) $\text{C}_6\text{H}_5-\text{CH}_2-\text{COOH}$

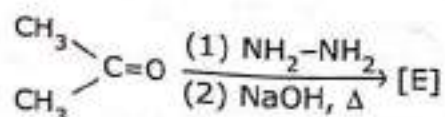
73. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [D] है-

- (A)
- (B)
- (C)
- (D)

74. Reaction

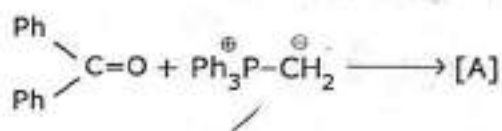


The product [E] in above Reaction

is:

- (A) $\begin{array}{c} \text{CH}_3 \\ \diagdown \\ \text{CH}_2 \\ \diagup \\ \text{CH}_3 \end{array}$
- (B) $\begin{array}{c} \text{CH}_3 \\ \diagdown \\ \text{CH}-\text{OH} \\ \diagup \\ \text{CH}_3 \end{array}$
- (C) $\begin{array}{c} \text{CH}_3 \\ \diagdown \\ \text{CH}-\text{CHO} \\ \diagup \\ \text{CH}_3 \end{array}$
- (D) $\begin{array}{c} \text{CH}_3 \\ \diagdown \\ \text{CH}-\text{NH}_2 \\ \diagup \\ \text{CH}_3 \end{array}$

75. Reaction

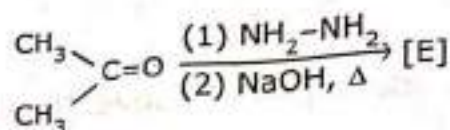


The major product [A] in above

Reaction is:

- (A) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}-\text{CH}_2\text{OH} \\ \diagup \\ \text{Ph} \end{array}$
- (B) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}-\text{COOH} \\ \diagup \\ \text{Ph} \end{array}$
- (C) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}-\text{CHO} \\ \diagup \\ \text{Ph} \end{array}$
- (D) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{C}=\text{CH}_2 \\ \diagup \\ \text{Ph} \end{array}$

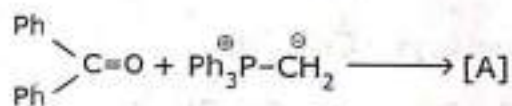
74. अभिक्रिया



उपरोक्त अभिक्रिया में उत्पाद [E] है।

- (A) $\begin{array}{c} \text{CH}_3 \\ \diagdown \\ \text{CH}_2 \\ \diagup \\ \text{CH}_3 \end{array}$
- (B) $\begin{array}{c} \text{CH}_3 \\ \diagdown \\ \text{CH}-\text{OH} \\ \diagup \\ \text{CH}_3 \end{array}$
- (C) $\begin{array}{c} \text{CH}_3 \\ \diagdown \\ \text{CH}-\text{CHO} \\ \diagup \\ \text{CH}_3 \end{array}$
- (D) $\begin{array}{c} \text{CH}_3 \\ \diagdown \\ \text{CH}-\text{NH}_2 \\ \diagup \\ \text{CH}_3 \end{array}$

75. अभिक्रिया



उपरोक्त अभिक्रिया में मुख्य उत्पाद [A] है।

- (A) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}-\text{CH}_2\text{OH} \\ \diagup \\ \text{Ph} \end{array}$
- (B) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}-\text{COOH} \\ \diagup \\ \text{Ph} \end{array}$
- (C) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{CH}-\text{CHO} \\ \diagup \\ \text{Ph} \end{array}$
- (D) $\begin{array}{c} \text{Ph} \\ \diagdown \\ \text{C}=\text{CH}_2 \\ \diagup \\ \text{Ph} \end{array}$