

Based on Latest  
**NCERT | NEET** Syllabus &  
**NTA** Guidelines



For  
**NEET**  
**2025**

**Topic  
& Chapter** **Wise**

**Home Assignment**

# NEET CHEMISTRY

CLASS XI & XII



Scoring Grid	HOME ASSIGNMENTS CHAPTERWISE CC26- CHEMISTRY			
	Total Questions	45	Total Marks	180
	Attempted		Correct	
	Incorrect		Net Score	
	Cut-off Score	45	Qualifying Score	60
	Success Gap = Net Score – Qualifying Score			
	Net Score = (Correct × 4) – (Incorrect × 1)			



# Contents

Class  
XI

1. Some Basic Concepts of Chemistry
2. Structure of Atom
3. Classification of Elements and Periodicity in Properties
4. Chemical Bonding and Molecular Structure
5. Thermodynamics
6. Equilibrium
7. Redox Reactions
8. Organic Chemistry - Some Basic Principles and Techniques
9. Hydrocarbons

# Contents

Class  
XII

1. Solutions
  2. Electrochemistry
  3. Chemical Kinetics.
  4. The d-and f-Block Elements.
  5. Coordination Compounds
  6. Haloalkanes and Haloarenes
  7. Alcohols, Phenols and Ethers
  8. Aldehydes, Ketones and Carboxylic Acids
  9. Amines
  10. Biomolecules
- "B. Principles Related to Practical Chemistry

# Home Assignments

## Chapter-wise Sheets

Date :

Start Time :

End Time :

# CHEMISTRY (CC26)

SYLLABUS : Aldehydes, Ketones and Carboxylic Acids

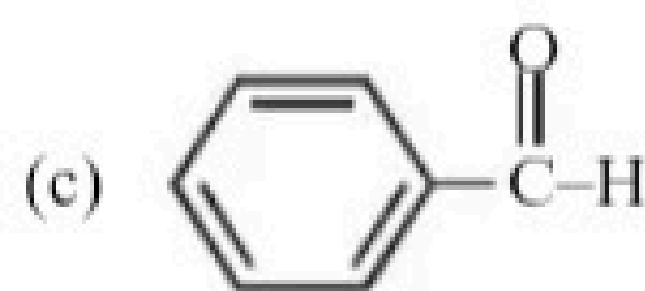
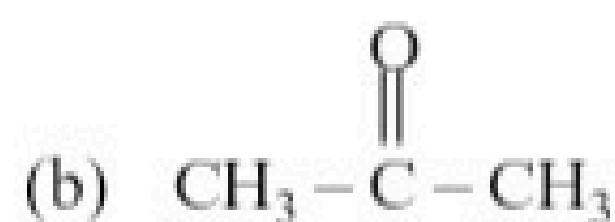
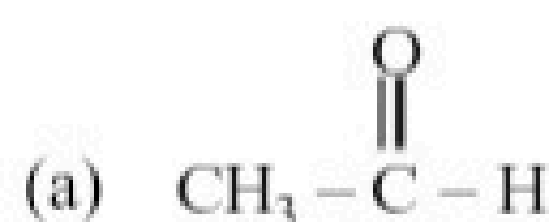
Max. Marks : 180

Marking Scheme : + 4 for correct & (-1) for incorrect

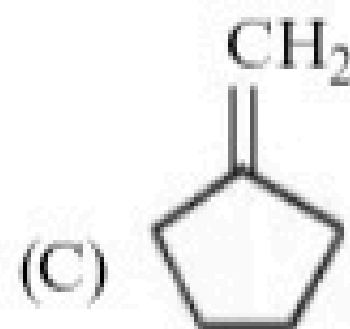
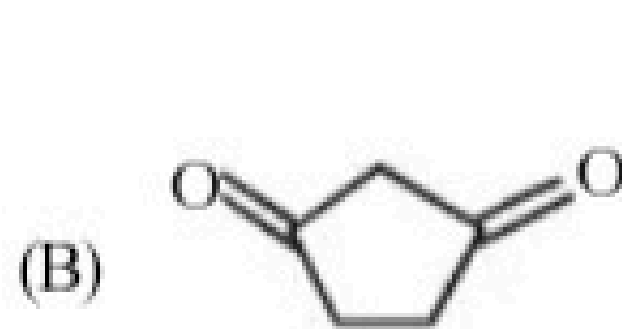
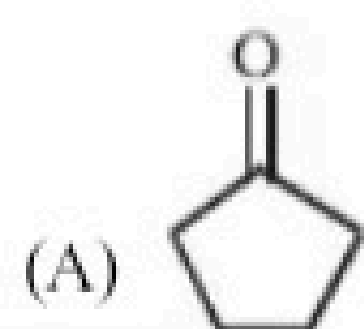
Time : 60 min.

**INSTRUCTIONS** : This Daily Practice Problem Sheet contains 45 MCQ's. For each question only one option is correct. Darken the correct circle/ bubble in the Response Grid provided on each page.

1. Which of the following compounds is most reactive towards nucleophilic addition reactions?



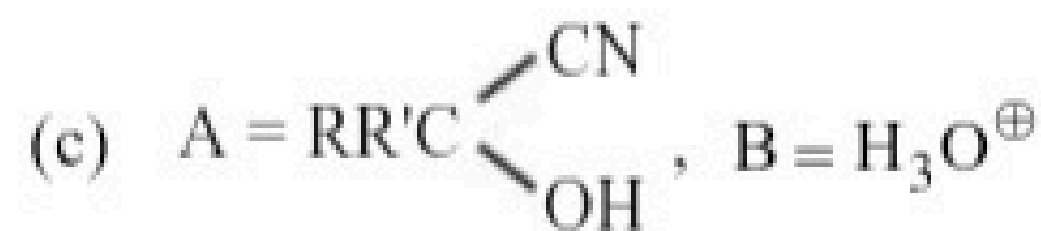
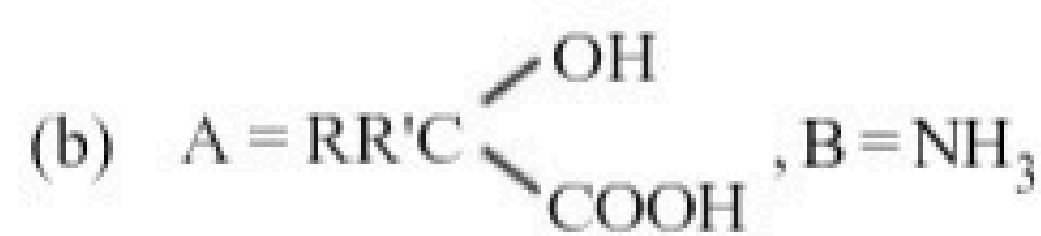
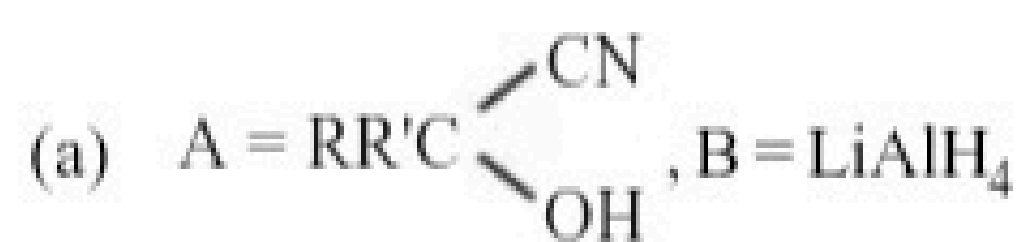
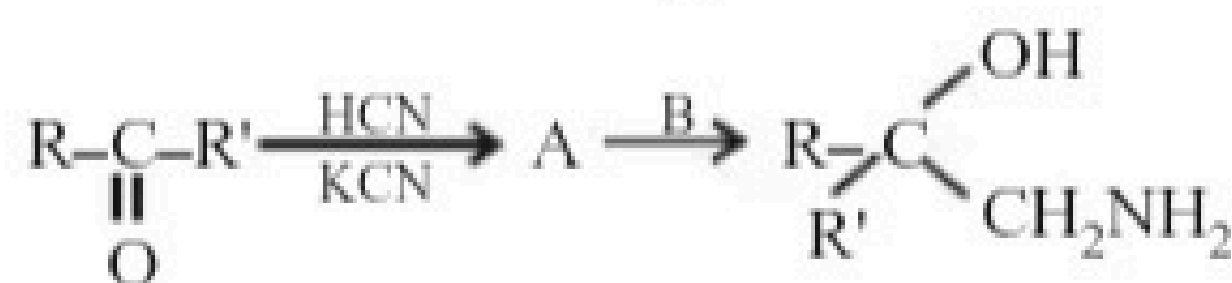
2. Arrange the following in order of decreasing acidity



- (a)  $\text{B} > \text{A} > \text{C}$   
(c)  $\text{A} > \text{C} > \text{B}$

- (b)  $\text{C} > \text{B} > \text{A}$   
(d)  $\text{A} > \text{B} > \text{C}$

3. A and B in the following reactions are



4. Acetaldehyde reacts with

- (a) Electrophiles only  
(b) Nucleophiles only  
(c) Free radicals only  
(d) Both electrophiles and nucleophiles

RESPONSE GRID

1. (a)(b)(c)(d)

2. (a)(b)(c)(d)

3. (a)(b)(c)(d)

4. (a)(b)(c)(d)

Space for Rough Work

## Home Assignments

C-102

CC26

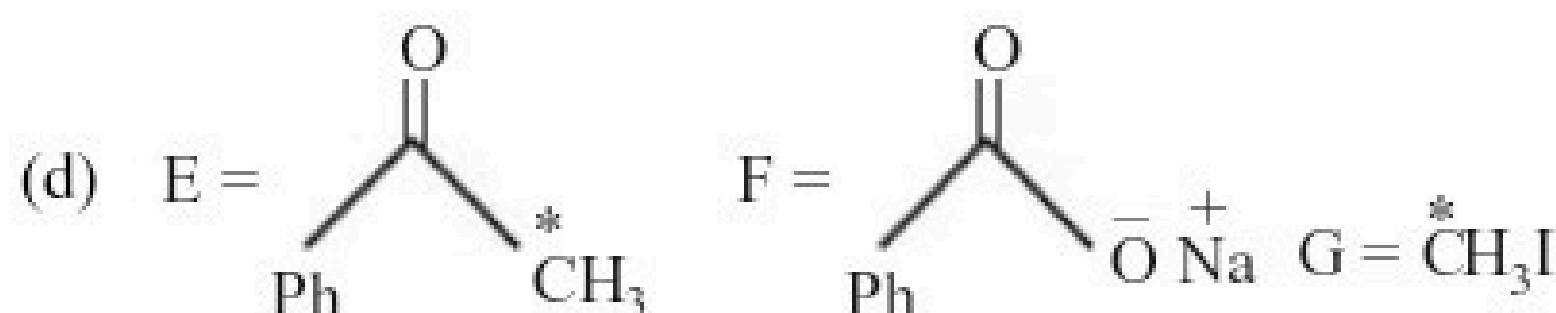
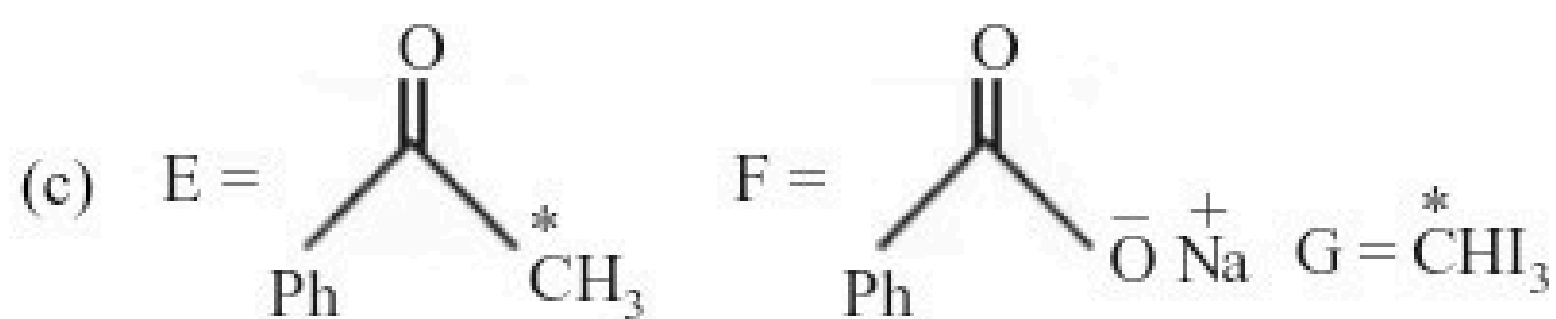
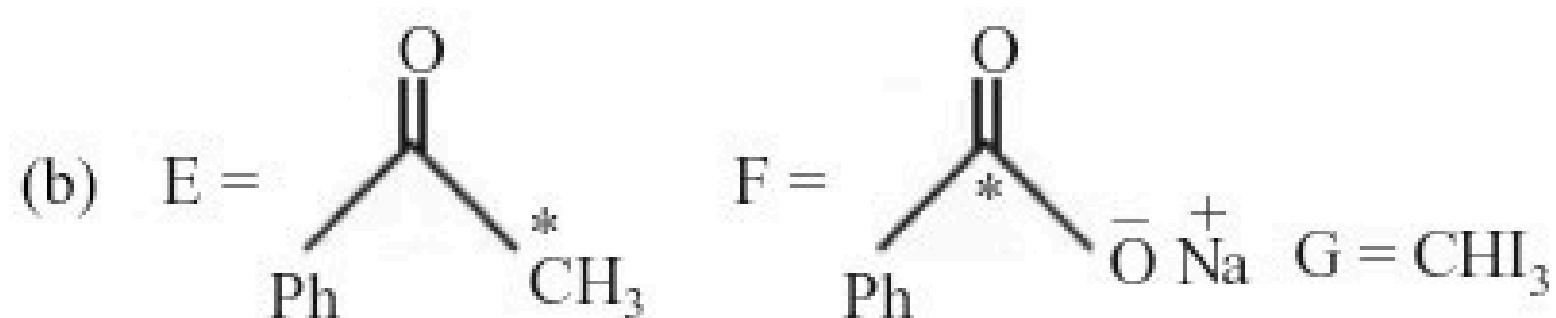
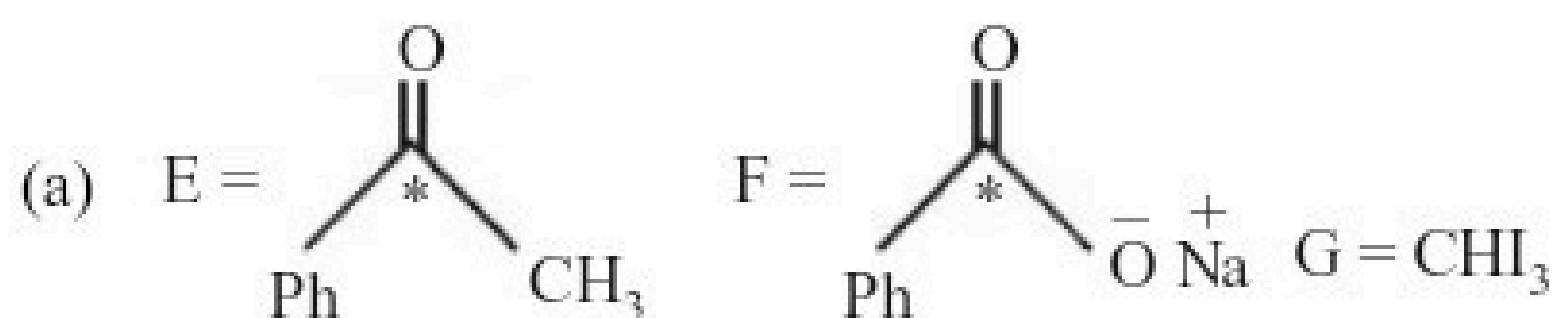
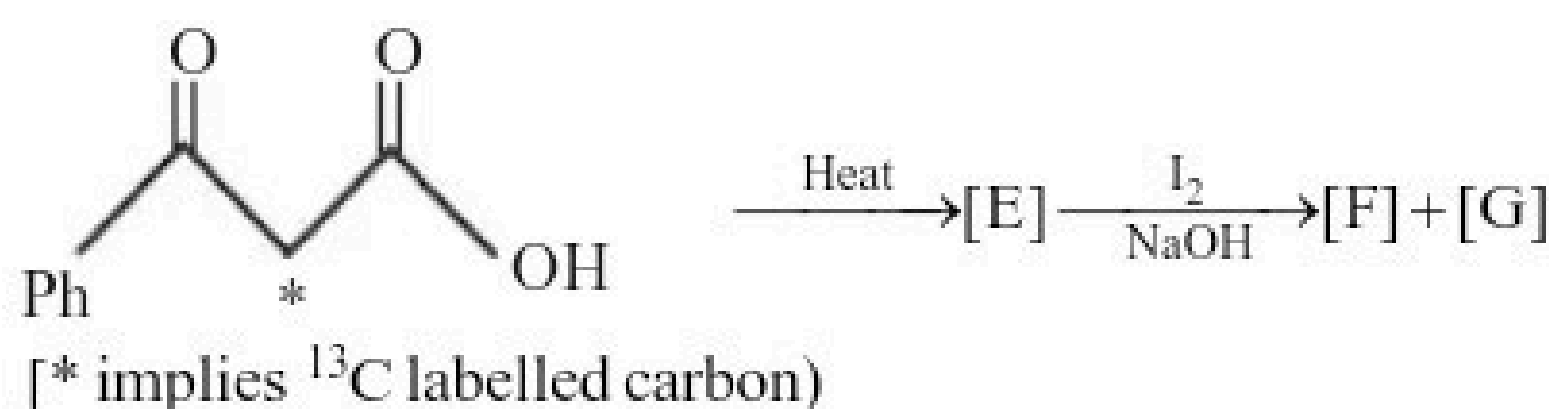
5.  $C_6H_5CH=CHCHO \xrightarrow{X} C_6H_5CH=CHCH_2OH$   
In the above sequence X can be :

- (a)  $H_2/Ni$  (b)  $NaBH_4$   
(c)  $K_2Cr_2O_7/H^+$  (d) Both (a) and (b)

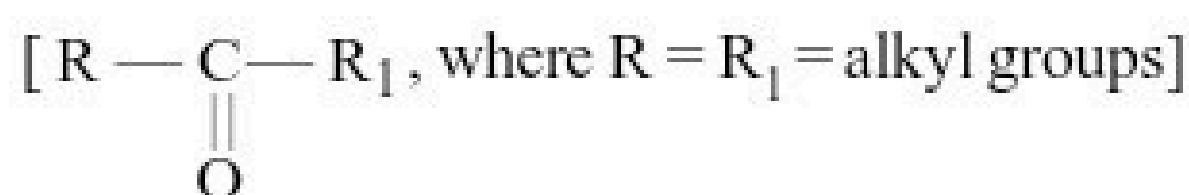
6. Which one of the following can be oxidised to the corresponding carbonyl compound?

- (a) 2-hydroxy-propane  
(b) Ortho-nitro-phenol  
(c) Phenol  
(d) 2-methyl-2-hydroxy-propane

7. In the following reaction sequence, the correct structures of E, F and G are



8. Ketones



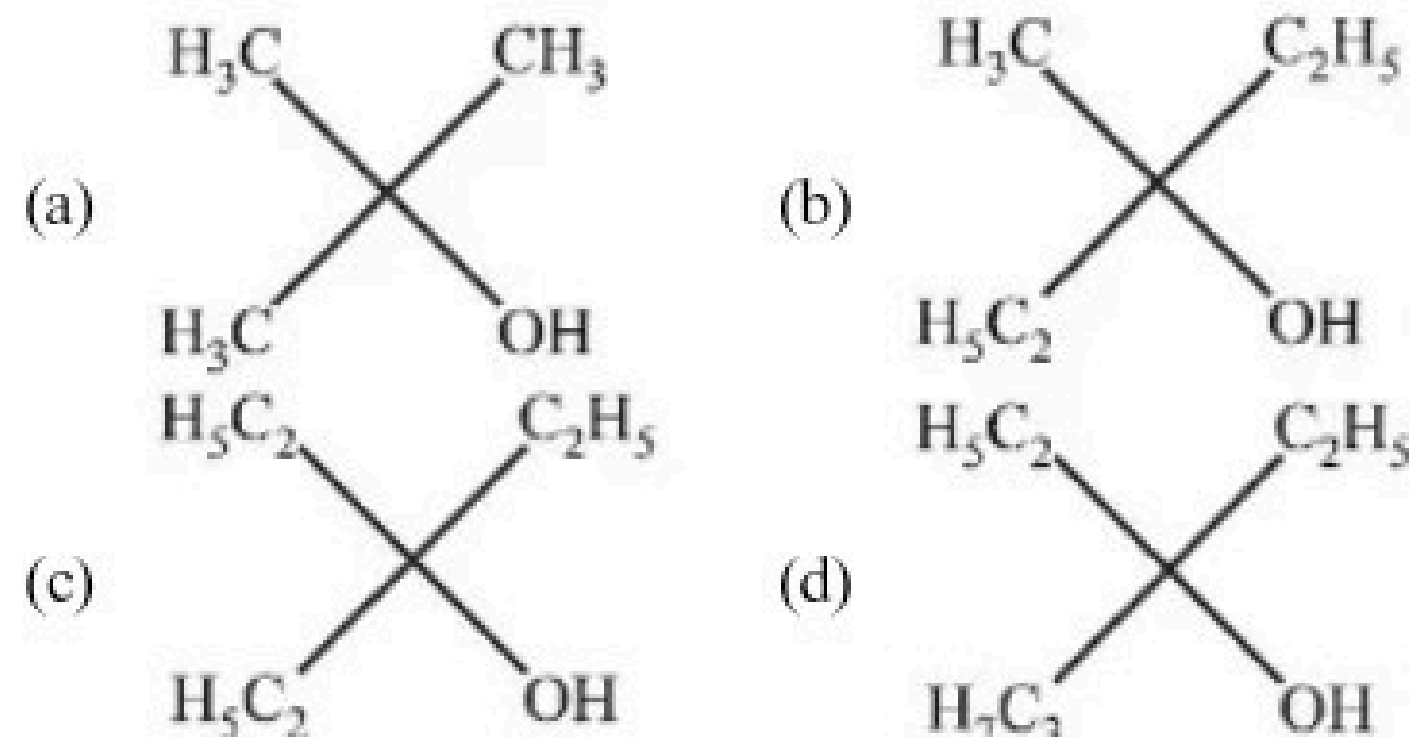
can be obtained in one step by

- (a) oxidation of primary alcohols  
(b) hydrolysis of esters  
(c) oxidation of tertiary alcohols  
(d) reaction of acid halides with alcohols

9. The compound that neither forms semicarbazone nor oxime is

- (a)  $HCHO$  (b)  $CH_3COCH_2Cl$   
(c)  $CH_3CHO$  (d)  $CH_3CONHCH_3$

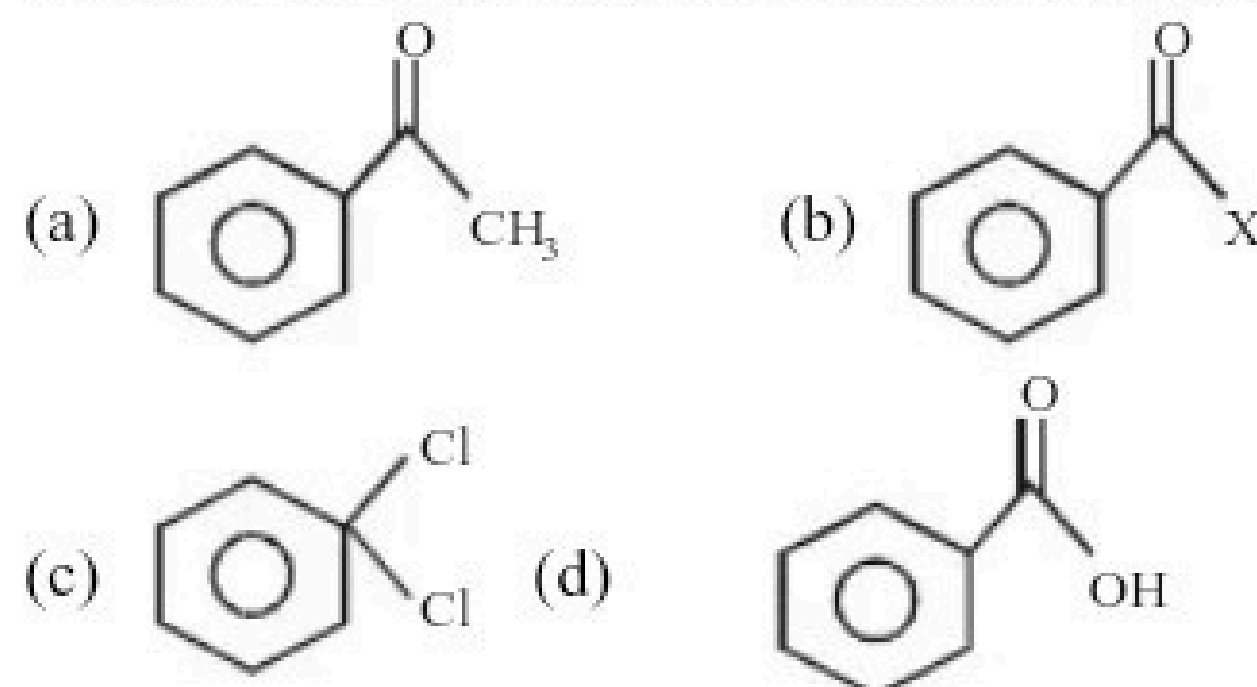
10. Ethyl ester  $\xrightarrow[\text{excess}]{CH_3MgBr}$  P. The product P will be



11. Which of the following compounds when heated with CO at  $150^\circ C$  and 500 atm pressure in presence of  $BF_3$  forms ethyl propionate ?

- (a)  $C_2H_5OH$  (b)  $CH_3OCH_3$   
(c)  $C_2H_5OC_2H_5$  (d)  $CH_3OC_2H_5$

12. Benzaldehyde is obtained from Rosenmund's reduction of



13. Acetone oxime is obtained by reacting acetone with

- (a)  $NH_3$  (b)  $NH_2OH$  (c)  $NH_2Na$  (d)  $NH_2.NH_2$

14.  $2C_6H_5CHO \xrightarrow[H_2O]{OH^-} C_6H_5CH_2OH + C_6H_5COO^-$

Which of the following statements are correct regarding the above reduction of benzaldehyde to benzyl alcohol?

- (i) One hydrogen is coming from  $H_2O$  as  $H^+$  and another from  $C_6H_5CHO$  as  $H^-$   
(ii) One hydrogen is coming from  $H_2O$  as  $H^-$  and another from  $C_6H_5CHO$  as  $H^+$   
(iii) One hydrogen from  $H_2O$  and another from  $C_6H_5CHO$ , both in the form of  $H^-$   
(iv) The reduction is an example of disproportionation reaction  
(a) (i), (ii) and (iii) (b) (i) and (iv)  
(c) (ii), (iii) and (iv) (d) (iii) and (iv)

15. A carboxylic acid can best be converted into acid chloride by using

- (a)  $PCl_5$  (b)  $SOCl_2$   
(c)  $HCl$  (d)  $ClCOCl$

16. Among the given compounds, the most susceptible to nucleophilic attack at the carbonyl group is

- (a)  $MeCOCl$  (b)  $MeCHO$   
(c)  $MeCOOMe$  (d)  $MeCOOCOMe$

**RESPONSE  
GRID**

5. (a) (b) (c) (d)

6. (a) (b) (c) (d)

7. (a) (b) (c) (d)

8. (a) (b) (c) (d)

9. (a) (b) (c) (d)

10. (a) (b) (c) (d)

11. (a) (b) (c) (d)

12. (a) (b) (c) (d)

13. (a) (b) (c) (d)

14. (a) (b) (c) (d)

15. (a) (b) (c) (d)

16. (a) (b) (c) (d)

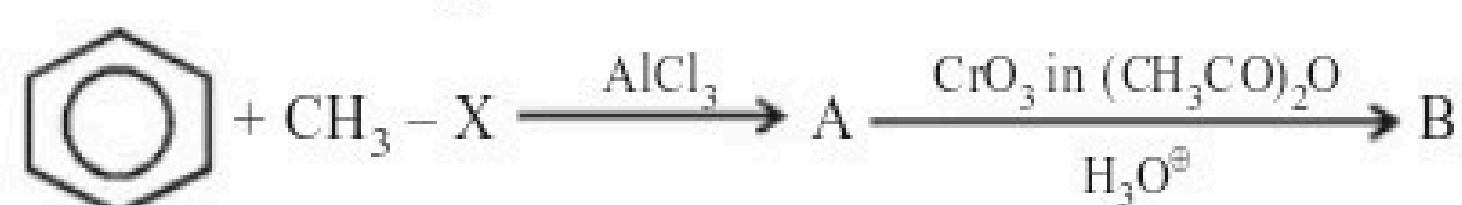
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# Home Assignments

CC26

C-103

17. Find out B in the given reactions

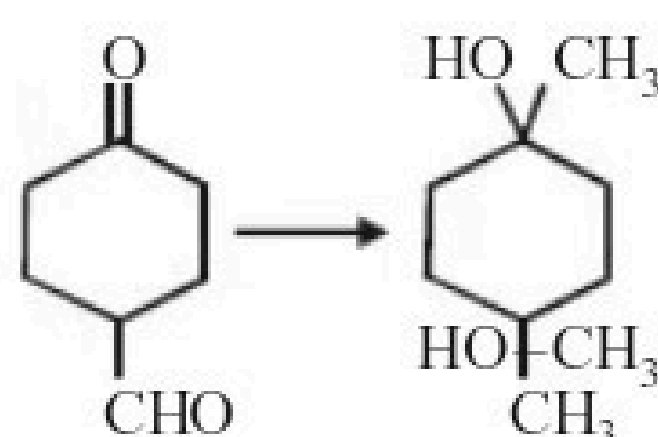


- (a) acetophenone  
(b) benzaldehyde  
(c) cyclohexyl carbaldehyde  
(d) benzoic acid

18. Pinacolone is

- (a) 2,3-Dimethyl-2,3-butanediol  
(b) 3,3-Dimethyl-2-butanone  
(c) 1-Phenyl-2-propanone  
(d) 1,1-Diphenyl-1,2-ethandiol

19. The correct sequence of reagents for the following conversion will be :



- (a)  $[\text{Ag}(\text{NH}_3)_2]^+ \text{OH}^-$ ,  $\text{H}^+/\text{CH}_3\text{OH}$ ,  $\text{CH}_3\text{MgBr}$   
(b)  $\text{CH}_3\text{MgBr}$ ,  $\text{H}^+/\text{CH}_3\text{OH}$ ,  $[\text{Ag}(\text{NH}_3)_2]^+ \text{OH}^-$   
(c)  $\text{CH}_3\text{MgBr}$ ,  $[\text{Ag}(\text{NH}_3)_2]^+ \text{OH}^-$ ,  $\text{H}^+/\text{CH}_3\text{OH}$   
(d)  $[\text{Ag}(\text{NH}_3)_2]^+ \text{OH}^-$ ,  $\text{CH}_3\text{MgBr}$ ,  $\text{H}^+/\text{CH}_3\text{OH}$

20. Benzaldehyde reacts with ethanoic KCN to give

- (a)  $\text{C}_6\text{H}_5\text{CHOHCN}$  (b)  $\text{C}_6\text{H}_5\text{CHOHCOC}_6\text{H}_5$   
(c)  $\text{C}_6\text{H}_5\text{CHOHCOOH}$  (d)  $\text{C}_6\text{H}_5\text{CHOHCHOHC}_6\text{H}_5$

21. Which gives lactic acid on hydrolysis after reacting with HCN?

- (a)  $\text{HCHO}$  (b)  $\text{CH}_3\text{CHO}$   
(c)  $\text{C}_6\text{H}_5\text{CHO}$  (d)  $\text{CH}_3\text{COCH}_3$

22. Reduction of  $>\text{C}=\text{O}$  to  $>\text{CH}_2$  can be carried out with

- (a) catalytic reduction  
(b)  $\text{Na}/\text{C}_2\text{H}_5\text{OH}$   
(c) Wolff-Kishner reduction  
(d)  $\text{LiAlH}_4$

23. The end product B in the sequence of reactions



- (a) an alkane  
(b) a carboxylic acid  
(c) sodium salt of carboxylic acid  
(d) a ketone

24. Phenylmethyl ketone can be converted into ethylbenzene in one step by which of the following reagents?

- (a)  $\text{LiAlH}_4$  (b)  $\text{Zn-Hg/HCl}$   
(c)  $\text{NaBH}_4$  (d)  $\text{CH}_3\text{MgI}$

25. Conversion of acetaldehyde into ethyl acetate in presence of aluminium ethoxide is called

- (a) Aldol condensation (b) Cope reaction  
(c) Tischenko reaction (d) Benzoin condensation

26. Match the columns

**Column-I**

**Column-II**

- A. Etard reaction I. Alcoholic KOH  
B. Hydroxylation II. Anhydrous  $\text{AlCl}_3$   
C. Dehydrohalogenation III. Chromyl chloride  
D. Friedel-Crafts reaction IV. Dilute alkaline  $\text{KMnO}_4$

- (a) A - I; B - II; C - III; D - II  
(b) A - IV; B - III; C - I; D - II  
(c) A - III; B - IV; C - I; D - II  
(d) A - II; B - I; C - IV; D - III

27. An organic compound A upon reacting with  $\text{NH}_3$  gives B. On heating B gives C. C in presence of KOH reacts with  $\text{Br}_2$  to give  $\text{CH}_3\text{CH}_2\text{NH}_2$ . A is :

- (a)  $\text{CH}_3\text{COOH}$  (b)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{COOH}$   
(c)  $\text{CH}_3 - \underset{\text{CH}_3}{\text{CH}} - \text{COOH}$  (d)  $\text{CH}_3\text{CH}_2\text{COOH}$

28. Which one of the following can be oxidised to the corresponding carbonyl compound?

- (a) 2-hydroxypropane  
(b) Ortho-nitrophenol  
(c) Phenol  
(d) 2-methyl-2-hydroxypropane

29. The reagent which can be used to distinguish acetophenone from benzophenone is

- (a) 2,4-dinitrophenylhydrazine  
(b) aqueous solution of  $\text{NaHSO}_3$   
(c) benedict reagent  
(d)  $\text{I}_2$  and  $\text{Na}_2\text{CO}_3$

30.  $\text{R}-\text{CH}_2-\text{CH}_2\text{OH}$  can be converted into  $\text{RCH}_2\text{CH}_2\text{COOH}$ . The correct sequence of reagents is

- (a)  $\text{PBr}_3, \text{KCN}, \text{H}^+$  (b)  $\text{PBr}_3, \text{KCN}, \text{H}_2$   
(c)  $\text{KCN}, \text{H}^+$  (d)  $\text{HCN}, \text{PBr}_3, \text{H}^+$

31. Sodium salt of an organic acid 'X' produces effervescence with conc.  $\text{H}_2\text{SO}_4$ . 'X' reacts with the acidified aqueous  $\text{CaCl}_2$  solution to give a white precipitate which decolourises acidic solution of  $\text{KMnO}_4$ . 'X' is :

- (a)  $\text{C}_6\text{H}_5\text{COONa}$  (b)  $\text{HCOONa}$   
(c)  $\text{CH}_3\text{COONa}$  (d)  $\text{Na}_2\text{C}_2\text{O}_4$

RESPONSE  
GRID

17. (a) (b) (c) (d)

18. (a) (b) (c) (d)

19. (a) (b) (c) (d)

20. (a) (b) (c) (d)

21. (a) (b) (c) (d)

22. (a) (b) (c) (d)

23. (a) (b) (c) (d)

24. (a) (b) (c) (d)

25. (a) (b) (c) (d)

26. (a) (b) (c) (d)

27. (a) (b) (c) (d)

28. (a) (b) (c) (d)

29. (a) (b) (c) (d)

30. (a) (b) (c) (d)

31. (a) (b) (c) (d)

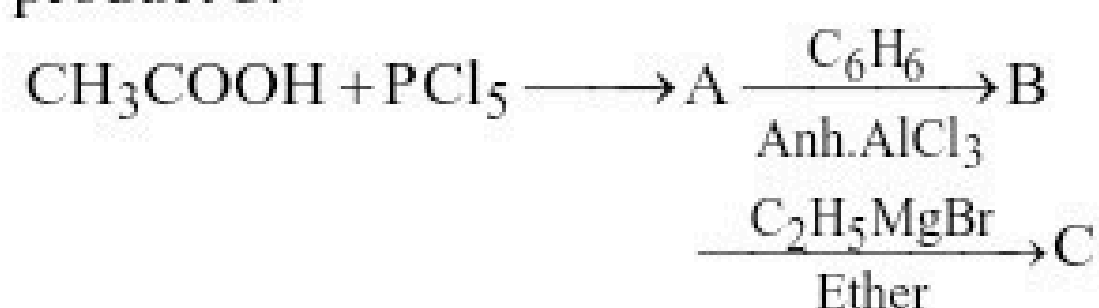
Space for Rough Work

# Home Assignments

C-104

CC26

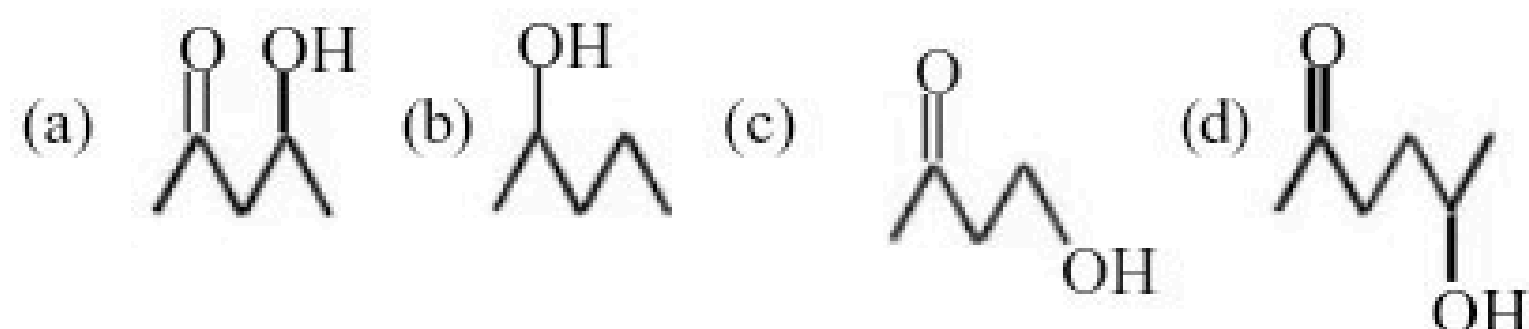
32. In a set of the given reactions, acetic acid yielded a product C.



Product C would be

- (a)  $\text{CH}_3 - \overset{\text{C}_2\text{H}_5}{\underset{|}{\text{C}}}(\text{OH})\text{C}_6\text{H}_5$  (b)  $\text{CH}_3\text{CH}(\text{OH})\text{C}_2\text{H}_5$   
(c)  $\text{CH}_3\text{COC}_6\text{H}_5$  (d)  $\text{CH}_3\text{CH}(\text{OH})\text{C}_6\text{H}_5$

33. Which one of the following will most readily be dehydrated in acidic condition?



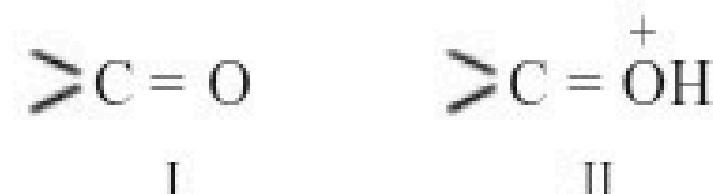
34. Which of the following contain an aldehyde?

- (a) Vanilla beans (b) Meadow sweet  
(c) Cinnamon (d) All of these

35. Heating mixture of sodium benzoate and soda-lime gives

- (a) benzene (b) methane  
(c) sodium phenoxide (d) calcium benzoate

36. Observe the following structures and pick up the correct statement.



- (a) Carbonyl carbon of I is more electrophilic than that of II  
(b) Carbonyl carbon of I is less electrophilic than that of II  
(c) Carbonyl carbon of both structures have equal electrophilic character  
(d) It depends upon the complete structure of the compound

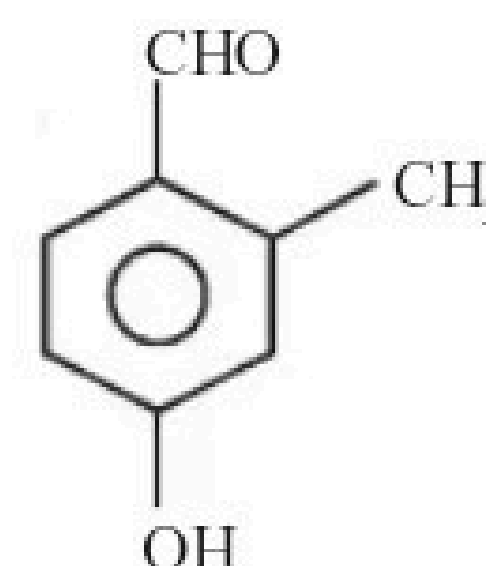
37. An enantiomerically pure acid is treated with a racemic mixture of an alcohol having one chiral carbon. The ester formed will be

- (a) Optically active mixture (b) Pure enantiomer  
(c) Meso compound (d) Racemic mixture

38. *m*-Chlorobenzaldehyde on reaction with conc. KOH at room temperature gives

- (a) potassium *m*-chlorobenzoate and *m*-hydroxybenzaldehyde  
(b) *m*-hydroxybenzaldehyde and *m*-chlorobenzyl alcohol  
(c) *m*-chlorobenzyl alcohol and *m*-hydroxybenzyl alcohol  
(d) potassium *m*-chlorobenzoate and *m*-chlorobenzyl alcohol.

39. IUPAC name of following will be



- (a) 4-formyl-3-methyl-1-hydroxy benzene  
(b) 4-formyl-3-methyl phenol  
(c) 4-hydroxy-2-methyl benzaldehyde  
(d) 4-hydroxy-2-methyl carbaldehyde

40. The correct order of increasing acid strength of the compounds

- (A)  $\text{CH}_3\text{CO}_2\text{H}$  (B)  $\text{MeOCH}_2\text{CO}_2\text{H}$

- (C)  $\text{CF}_3\text{CO}_2\text{H}$  (D)  $\text{Me}_2\text{C}(\text{Me})\text{CO}_2\text{H}$  is

- (a)  $\text{D} < \text{A} < \text{B} < \text{C}$  (b)  $\text{A} < \text{D} < \text{B} < \text{C}$   
(c)  $\text{B} < \text{D} < \text{A} < \text{C}$  (d)  $\text{D} < \text{A} < \text{C} < \text{B}$

41. The increasing order of the rate of HCN addition to compound A – D is

- (A) HCHO (B)  $\text{CH}_3\text{COCH}_3$   
(C)  $\text{PhCOCH}_3$  (D)  $\text{PhCOPh}$

- (a)  $\text{D} < \text{C} < \text{B} < \text{A}$  (b)  $\text{C} < \text{D} < \text{B} < \text{A}$   
(c)  $\text{A} < \text{B} < \text{C} < \text{D}$  (d)  $\text{D} < \text{B} < \text{C} < \text{A}$

42. The carboxyl functional group ( $-\text{COOH}$ ) is present in

- (a) picric acid (b) barbituric acid  
(c) ascorbic acid (d) aspirin

43. Which alkene on ozonolysis gives  $\text{CH}_3\text{CH}_2\text{CHO}$  and  $\text{CH}_3\text{C}(=\text{O})\text{CH}_3$

- (a)  $\text{CH}_3\text{CH}_2\text{CH}=\text{C}(\text{CH}_3)_2$  (b)  $\text{CH}_3\text{CH}_2\text{CH}=\text{CHCH}_2\text{CH}_3$   
(c)  $\text{CH}_3\text{CH}_2\text{CH}=\text{CHCH}_3$  (d)  $\text{CH}_3-\text{C}(\text{CH}_3)=\text{CHCH}_3$

44. Which one of the following is reduced with zinc and hydrochloric acid to give the corresponding hydrocarbon?

- (a) Acetamide (b) Acetic acid  
(c) Ethyl acetate (d) Butan-2-one

45. Acetal is produced by reacting an alcohol in the presence of dry HCl with

- (a) acetaldehyde (b) ketone  
(c) ether (d) carboxylic acid

RESPONSE  
GRID

- |                     |                     |                     |                     |                     |
|---------------------|---------------------|---------------------|---------------------|---------------------|
| 32. (a) (b) (c) (d) | 33. (a) (b) (c) (d) | 34. (a) (b) (c) (d) | 35. (a) (b) (c) (d) | 36. (a) (b) (c) (d) |
| 37. (a) (b) (c) (d) | 38. (a) (b) (c) (d) | 39. (a) (b) (c) (d) | 40. (a) (b) (c) (d) | 41. (a) (b) (c) (d) |
| 42. (a) (b) (c) (d) | 43. (a) (b) (c) (d) | 44. (a) (b) (c) (d) | 45. (a) (b) (c) (d) |                     |

Space for Rough Work