

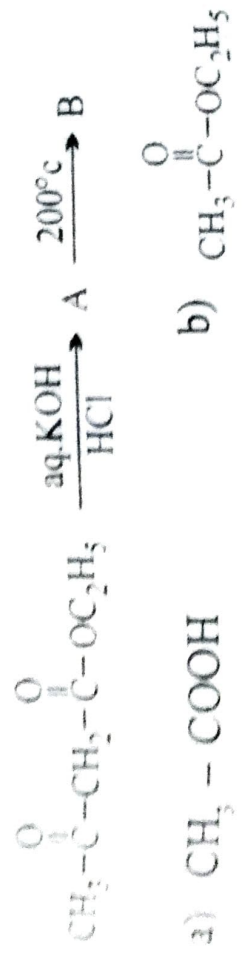
Reversible

MCQ's

- 1) Ethyl acetoacetate is an
- a) α -halo ester b) β -keto ester
c) α -keto ester d) β -hydroxy ester
- 2) Structural formula of ethylacetoacetate is ...
- a) $\text{C}_2\text{H}_5-\text{O}-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_3$ b) $\text{C}_2\text{H}_5-\text{O}-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_3$
c) $\text{CH}_3-\overset{\text{OH}}{\underset{|}{\text{C}}}-\overset{\text{O}}{\parallel}{\text{C}}-\text{OC}_2\text{H}_5$ d) $\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}-\overset{\text{O}}{\parallel}{\text{C}}-\text{OC}_2\text{H}_5$
- 3) Ethyl acetoacetate can be prepared from ...
- a) Acetyl chloride b) Acetic anhydride

Ogg. Synthesis v. g Enolate

- 4) Ethyl acetate is prepared by reaction.
- 5) Esters which undergo Claisen condensation should have at least ... α hydrogen.
- 6) Keto-Enol tautomerism is observed in
- 7) $-C=C-OH$ group can be confirmed by reaction with ...
- 8) Keto group in ethyl acetoacetate can be confirmed by reaction with....
- 9) Ethyl acetoacetate reacts with acetyl chloride to give acetyl derivative due to functional group.
- 10) group in ethyl acetoacetate reacts with HCN to give cyanohydrin
- 11) Ethyl acetoacetate reacts with phenyl hydrazine to give phenyl hydrazone derivative indicates presence of group.



- 13) Crotonic acid is prepared from ethyl acetoacetate and ...
a) Acetone
b) Acetaldehyde
c) Formaldehyde
d) Acetic acid
- 14) Cinnamic acid is prepared by action of ethyl acetoacetate with ...
a) Acetone
b) Acetaldehyde
c) Benzaldehyde
d) Benzophenone
- 15) Ethyl acetoacetate reacts with ethanal in presence of base and then upon acid hydrolysis yields ...
a) Crotonic acid
b) Benzoic acid
c) Cinnamic acid
d) Citric acid
- 16) Ethyl acetoacetate is hydrolysed with dilute HCl, to give ...
a) Acetic acid
b) Acetone
c) Acetoacetic acid
d) Acetaldehyde
- 17) Ethyl acetoacetate reacts with ethyl chloroacetate and hydrolysed by conc. NaOH to give ...
a) Succinic acid
b) Crotonic acid
c) Citric acid
d) Acetoacetic acid
- 18) 2, 4 pentanedione can be prepared from ethyl acetoacetate and ...
a) Acetaldehyde
b) Acetone
c) Acetyl chloride
d) Acetamide
- 19) Two molecules of sodium ethyl acetoacetate reacts with iodine followed by ketonic hydrolysis yields ...
a) 2,4-hexanedione
b) 2,5-hexanedione
c) Adipic acid
d) Succinic acid
- 20) Ethyl acetate on heating with sodium ethoxide gives ...
a) Ethyl acetoacetate
b) Sodium acetate
c) Ethyl alcohol
d) Acetic acid
- 21) Ethylaceto acetate reacts with phenyl hydrazine to give ...
a) Antipyrine
b) Aspirin
c) 4-methyl uracil
d) DDT
- 22) Ethyl acetoacetate reacts with urea to give ...
a) Antipyrine
b) Aspirin
c) 4-methyl uracil
d) DDT
- 23) Base-catalysed condensation of two ester molecule to form an alcohol and β -Keto ester is called

- a) Claisen condensation b) Corey-house reaction
 c) Aldol condensation d) Trans-esterification

Which of the following statement is false ?

- 24) a) Keto form didn't show coloration with FeCl_3
 b) Enol form shows coloration with FeCl_3
 c) Keto form show coloration with FeCl_3
 d) Ethyl acetoacetate shows keto-enol tautomerism

25) Enamines are ...

- a) α, β unsaturated amines b) β -keto amine
 c) β -hydroxy amine d) α -hydroxy amine

26) Enamine consist of group.

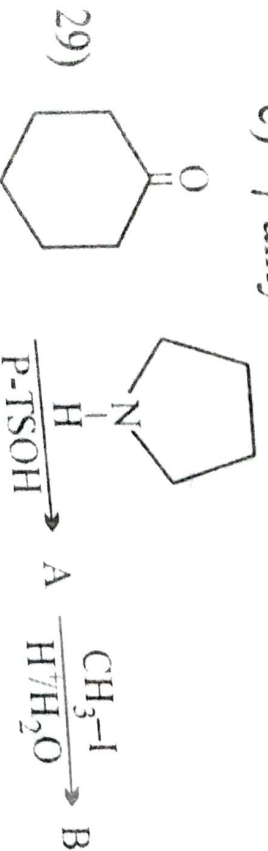
- a) Alkene b) Amine
 c) both a & b d) Amide

27) Enamines are obtained by action of ketone with ...

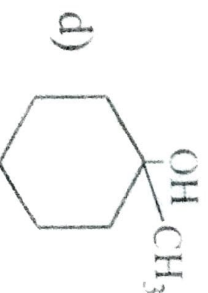
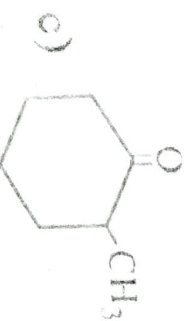
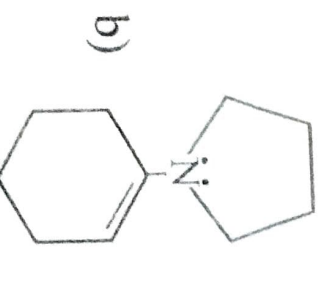
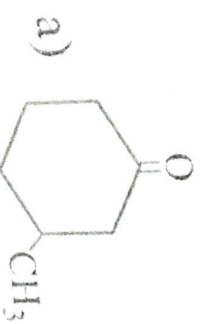
- a) Ammonia b) Primary amine
 c) Secondary amine d) Tertiary amine

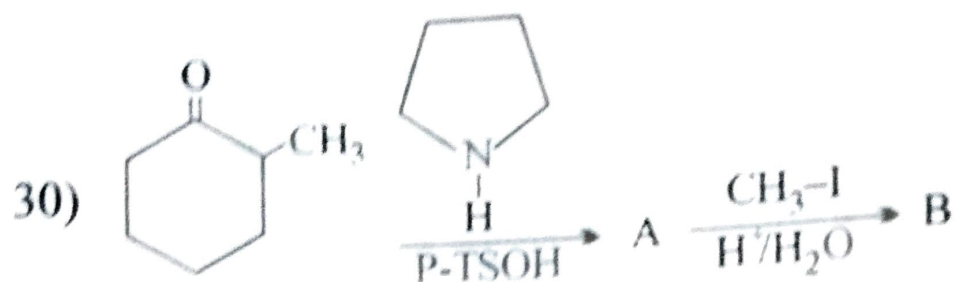
28) Enamines are useful intermediate in the synthesis ofproduct

- a) α -alkylated b) β -alkylated
 c) γ -alkylated d) δ -alkylated

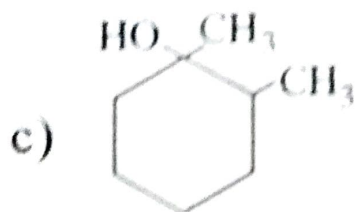
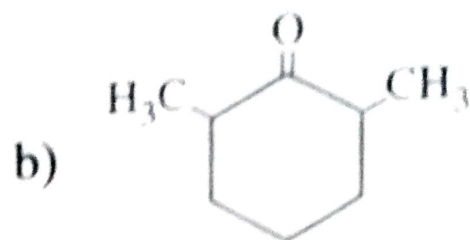
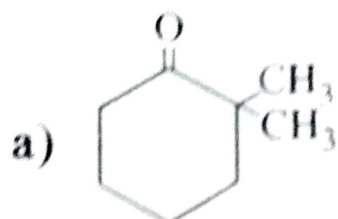


B is





B is



d) None of these

Answer Key

1)	b	2)	b	3)	c	4)	d	5)	b	6)	d
7)	d	8)	d	9)	a	10)	d	11)	d	12)	c
13)	b	14)	c	15)	a	16)	c	17)	a	18)	c
19)	b	20)	a	21)	a	22)	c	23)	a	24)	c
25)	a	26)	c	27)	c	28)	a	29)	c	30)	b