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Presence of α -H atom is the main condition for exhibiting tautomerism. The reactant taken in reaction (*C*) does not contain any α -H atom, thus the product (*Y*) will also show the absence of α -H atom, Hence, Y will show tautomerism





8 (a)
R₂NH + HNO₂
$$\rightarrow$$
 R₂N-N=0 + H₂O Nitrosoamines are carcinogens.
9 (b)
Acteonitriles on hydrolysis produce carboxylic acids with the evolution of ammonia.
0 0
CH₃ - C = NH₂OCH₃ - C - NH₂H₂OCH₃ - C - OH + NH₃
Acteonitrile actamide acetic acid
11 (b)
Methyl cyanide gives acetic acid on hydrolysis.
0
CH₃CH₃CH₂O/H⁺CH₃ - C - NH₂H₂O/H⁺CH₃COOH + NH₃
12 (c)
22NH₂ + 2HCl + PtCl₄ - C - NH₂H₂O/H⁺CH₃COOH + NH₃
13 (c)
6
6 eneral formula for any amine is C_nH_{2n+3}N, also note that for primary amine, it is C_nH_{2n+1}NH₂;
for secondary amine, it is C_nH_{2n+2}NH and for tertiary amine, it is C_nH_{2n+3}N.
14 (c)
Aniline on diazotization in cold (at 0° to 5°C) gives benzene diazonium chloride.
 $\sqrt[6]{-}$ NH₂ + NNH₂ + 2PCl $\frac{1}{\text{Diazotization}}$
 $\sqrt[6]{-}$ NH₂ + NNH₂





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Smart DPPs

ANSWER-KEY										
Q.	1	2	3	4	5	6	7	8	9	10
A.	В	С	Α	C	D	D	С	Α	В	Α
Q.	11	12	13	14	15	16	17	18	19	20
A.	B	С	С	С	В	С	С	С	С	D

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