

32. Match each of the compounds in Column I with its characteristic reaction(s) in Column II. (2016, Adv.)

Column I	Column II
(A) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CN}$	(p) Reduction with Pd - C/ H_2
(B) $\text{CH}_3\text{CH}_2\text{OCOCH}_3$	(q) Reduction with SnCl_2/HCl
(C) $\text{CH}_3\text{CH}=\text{CHCH}_2\text{OH}$	(r) Development of foul smell on treatment with chloroform and alcoholic KOH.
(D) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$	(s) Reduction with diisobutylaluminium hydride (DIBAL-H)
	(t) Alkaline hydrolysis

32.

Column I

Column II

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|-----|---|---|
| (A) | $\text{CH}_3\text{CH}_2\text{CH}_2\text{CN}$: | Gives amine with Pd-C/ H_2
Gives aldehyde with
SnCl_2/HCl Gives amide with
diisobutyl- aluminium
hydride. Gives carboxylic
acid on alkaline hydrolysis. |
| (B) | $\text{CH}_3\text{CH}_2\text{OCOCH}_3$:
ester | Reduced to alcohol with
Pd - C/ H_2 Reduced with
diisobutylaluminium hydride
into aldehyde. Undergo
alkaline hydrolysis. |
| (C) | $\text{CH}_3\text{CH}=\text{CHCH}_2\text{OH}$
: | Reduced to butanol when
treated with Pd-C/ H_2 . |
| (D) | $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$ | A primary amine, gives
carbylamine test. |
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