

PYQSide

NEET ALDEHYDES, KETONES AND CARBOXYLIC ACIDS — ALDOL CONDENSATION OF ALDEHYDES AND KETONES — PYQS

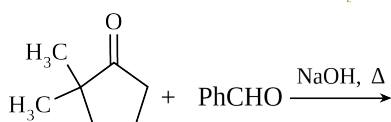
Max. Marks: 36

Questions: 9

Section A (MCQ)

Q.1 The compound that CANNOT be obtained from the aldol condensation reaction shown below, is

[RE-NEET (UG) 2026]



- (1)
- (2)
- (3)
- (4)

Scan or tap for the full solution



Q.2 Which one of the following is not formed when acetone reacts with 2-pentanone in the presence of dilute NaOH followed by heating?

[NEET (UG) 2022]

- (1)
- (2)
- (3)
- (4)

Scan or tap for the full solution



Q.3 Reaction between benzaldehyde and acetophenone in presence of dilute NaOH is known as :

[NEET (UG) 2020]

- (1) Cannizzaro's reaction
 (2) Cross Cannizzaro's reaction
 (3) Cross Aldol condensation
 (4) Aldol condensation

Scan or tap for the full solution



Q.4 Of the following, which is the product formed when cyclohexanone undergoes aldol condensation followed by heating?

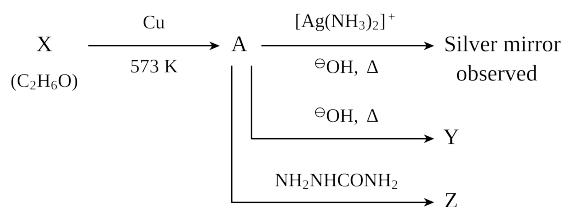
[NEET 2017]

- (1)
- (2)
- (3)
- (4)

Scan or tap for the full solution



Q.5 Consider the reactions,



Identify A, X, Y and Z.

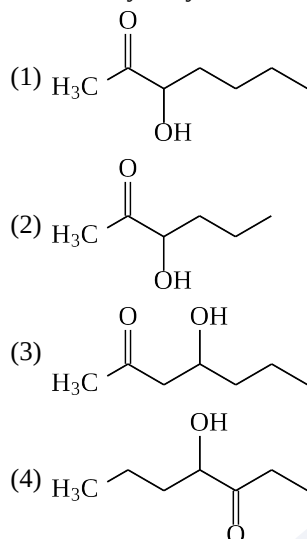
[NEET 2017]

- (1) A-Methoxymethane, X-Ethanol, Y-Ethanoic acid, Z-Semicarbazide.
- (2) A-Ethanal, X-Ethanol, Y-But-2-enal, Z-Semicarbazone.
- (3) A-Ethanol, X-Acetaldehyde, Y-Butanone, Z-Hydrazone.
- (4) A-Methoxymethane, X-Ethanoic acid, Y-Acetate ion, Z-Hydrazine.

Scan or tap for the full solution



Q.6 Which one of the following compounds will be most readily dehydrated? [AIPMT 2010 (Mains)]



Scan or tap for the full solution



Q.7 A strong base can abstract an α -hydrogen from

[AIPMT 2008]

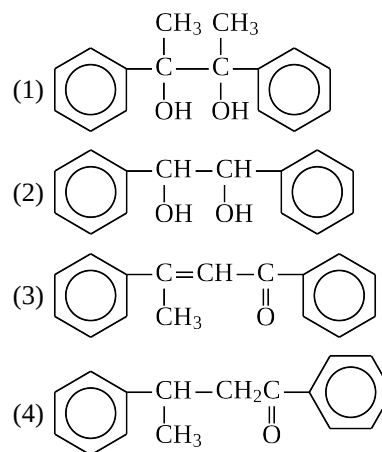
- (1) ketone (2) alkane (3) alkene (4) amine

Scan or tap for the full solution



Q.8 Acetophenone when reacted with a base, $\text{C}_2\text{H}_5\text{ONa}$, yields a stable compound which has the structure

[AIPMT 2008]



Scan or tap for the full solution



Q.9 The product formed in Aldol condensation is

[AIPMT 2007]

- (1) a beta-hydroxy aldehyde or a beta-hydroxy ketone
- (2) an alpha-hydroxy aldehyde or ketone
- (3) an alpha, beta unsaturated ester
- (4) a beta-hydroxy acid.

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9		
Ans.	2	2	3	1	2	3	1	3	1		