

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

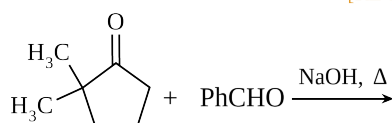
Max. Marks: 36

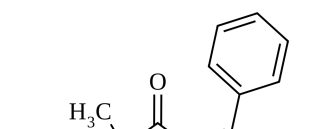
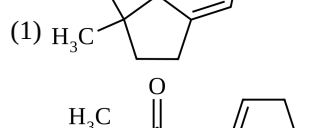
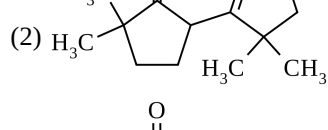
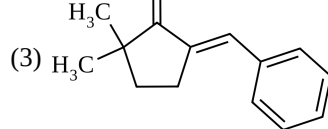
Questions: 9

Section A (MCQ) — 9 questions

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

[RE-NEET (UG) 2026]



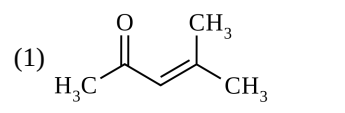
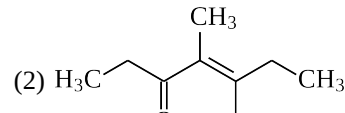
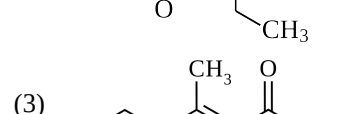
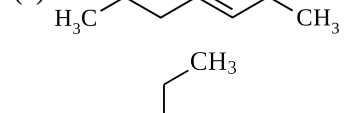
- (1) 
- (2) 
- (3) 
- (4) 

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]

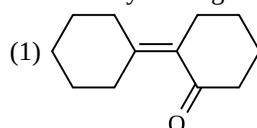
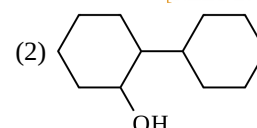
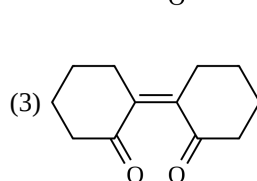
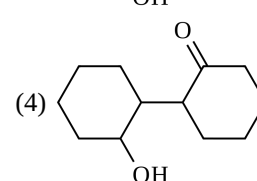
- (1) Cannizzaro's reaction
(2) Cross Cannizzaro's reaction
(3) Cross Aldol condensation
(4) Aldol condensation

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?

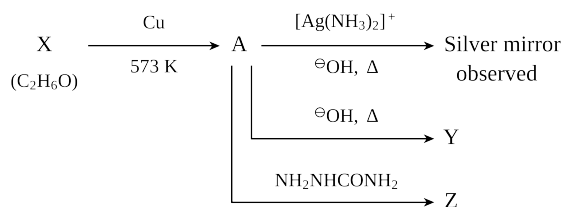
[NEET 2017]

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

Scan or tap for the full solution



- Q.5** Consider the reactions,



Identify A, X, Y and Z.

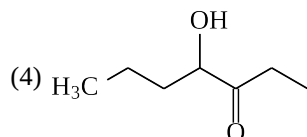
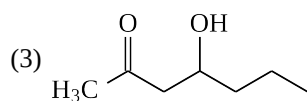
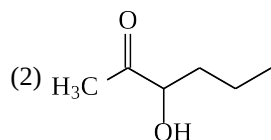
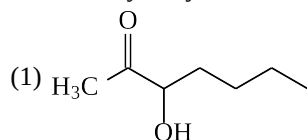
[NEET 2017]

- (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]

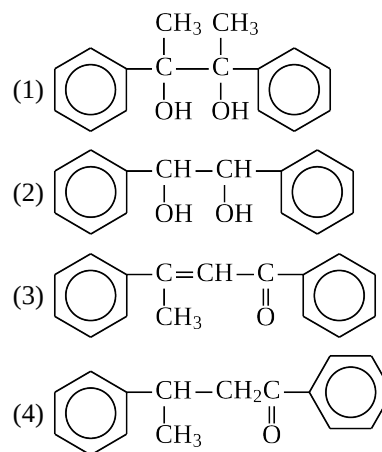
- (1) ketone (2) alkane (3) alkene (4) amine

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		