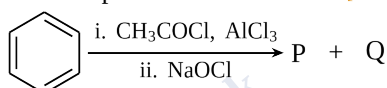


NEET ALDEHYDES, KETONES AND CARBOXYLIC ACIDS — OXIDATION OF METHYL KETONES (HALOFORM REACTION) — PYQS

Max. Marks: 24
Questions: 6

Section A (MCQ) — 6 questions

Q.1 For the following reaction sequence, choose the correct option [RE-NEET (UG) 2026]

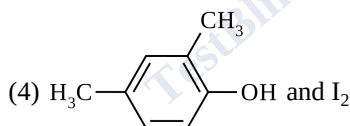
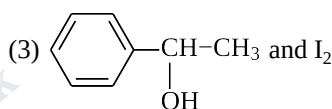
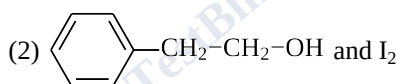
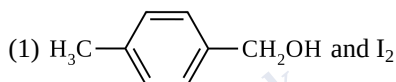


- (1) Both P and Q are carbonyl compounds
- (2) If P is the sodium salt of a carboxylic acid, Q is a primary alcohol
- (3) P and Q are aromatic compounds
- (4) If P gives a carboxylic acid on acidification, Q gives a poisonous gas on exposure to air and light

Scan or tap for the full solution



Q.2 Compound A, $\text{C}_8\text{H}_{10}\text{O}$, is found to react with NaOI (produced by reacting Y with NaOH) and yields a yellow precipitate with characteristic smell. A and Y are respectively [NEET 2018]



Scan or tap for the full solution



Q.3 An organic compound 'X' having molecular formula $\text{C}_5\text{H}_{10}\text{O}$ yields phenylhydrazine and gives negative response to the iodoform test and Tollens' test. It produces n-pentane on reduction. 'X' could be

[AIPMT 2015 (Cancelled)]

- (1) 3-pentanone
- (2) n-amyl alcohol
- (3) pentanal
- (4) 2-pentanone

Scan or tap for the full solution



Q.4 Which of the following compounds will give a yellow precipitate with iodine and alkali?

[AIPMT 2012 (Mains)]

- (1) Acetophenone
- (2) Methyl acetate
- (3) Acetamide
- (4) 2-Hydroxypropane

Scan or tap for the full solution



Q.5 CH_3CHO and $\text{C}_6\text{H}_5\text{CH}_2\text{CHO}$ can be distinguished chemically by

[AIPMT 2012 (Prelims)]

- (1) Benedict's test
- (2) Iodoform test
- (3) Tollens' reagent test
- (4) Fehling's solution test

Scan or tap for the full solution



Q.6 Following compounds are given

- (i) $\text{CH}_3\text{CH}_2\text{OH}$
- (ii) CH_3COCH_3
- (iii) $\text{CH}_3-\underset{\text{CH}_3}{\text{CHOH}}$
- (iv) CH_3OH

Which of the above compound(s), on being warmed with iodine solution and NaOH, will give iodoform?

[AIPMT 2010 (Mains)]

- (1) (i), (iii) and (iv)
- (2) Only (ii)
- (3) (i), (ii) and (iii)
- (4) (i) and (ii)

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	
Ans.	4	3	1	1, 4	2	3	