

PYQSide

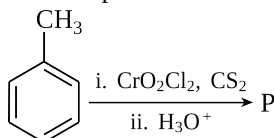
NEET ALDEHYDES, KETONES AND CARBOXYLIC ACIDS — PREPARATION OF ALDEHYDES AND KETONES — PYQS

Max. Marks: 52

Questions: 13

Section A (MCQ)

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

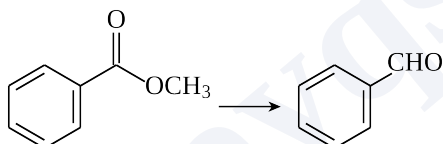


- (1) Compound P is obtained by the hydrogenation of benzoyl chloride with Pd on BaSO_4
- (2) On treating compound P with saturated NaHCO_3 solution, brisk effervescence is observed
- (3) Compound P can be prepared by treating benzene with anhydrous AlCl_3 and CH_3COCl
- (4) On treating with bromine water, compound P gives a white precipitate

Scan or tap for the full solution



Q.2 Identify the suitable reagent for the following conversion. [NEET (UG) 2025]

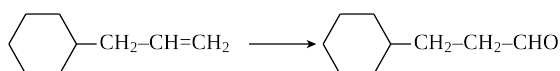


- (1) (i) NaBH_4 , (ii) $\text{H}^+/\text{H}_2\text{O}$
- (2) $\text{H}_2/\text{Pd}-\text{BaSO}_4$
- (3) (i) LiAlH_4 , (ii) $\text{H}^+/\text{H}_2\text{O}$
- (4) (i) $\text{AlH}(\text{iBu})_2$, (ii) H_2O

Scan or tap for the full solution



Q.3 Identify the correct reagents that would bring about the following transformation. [NEET (UG) 2024]



- (1) (i) $\text{H}_2\text{O}/\text{H}^+$, (ii) CrO_3
- (2) (i) BH_3 , (ii) $\text{H}_2\text{O}_2/\text{OH}^\ominus$, (iii) PCC
- (3) (i) BH_3 , (ii) $\text{H}_2\text{O}_2/\text{OH}^\ominus$, (iii) alk. KMnO_4
- (4) (i) $\text{H}_2\text{O}/\text{H}^+$, (ii) PCC

Scan or tap for the full solution



Q.4 Match List I with List II.

List I (Reaction)

A.	
B.	
C.	
D.	

List II (Reagents/Condition)

I.	
II.	CrO_3
III.	$\text{KMnO}_4/\text{KOH}, \Delta$
IV.	(i) O_3 (ii) $\text{Zn} - \text{H}_2\text{O}$

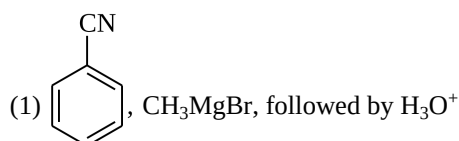
Choose the correct answer from the options given below: [NEET (UG) 2024]

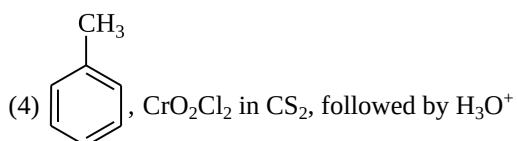
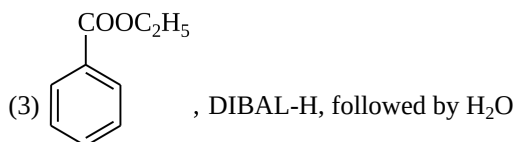
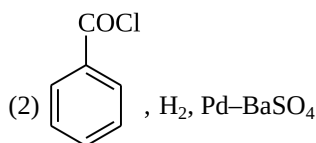
- (1) A-IV, B-I, C-III, D-II (2) A-III, B-I, C-II, D-IV
- (3) A-IV, B-I, C-II, D-III (4) A-I, B-IV, C-II, D-III

Scan or tap for the full solution



Q.5 The incorrect method to synthesize benzaldehyde is [NEET (UG) 2022 (Phase 2)]





Scan or tap for the full solution



Q.6 Match List-I with List-II

List-I	
a.	 $\xrightarrow[\text{Anhyd. AlCl}_3/\text{CuCl}]{\text{CO, HCl}}$
b.	$\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_3 + \text{NaOX} \longrightarrow$
c.	$\text{R}-\text{CH}_2-\text{OH} + \text{R}'\text{COOH} \xrightarrow{\text{Conc. H}_2\text{SO}_4}$
d.	$\text{R}-\text{CH}_2-\text{COOH} \xrightarrow[\text{(ii) H}_2\text{O}]{\text{(i) X}_2/\text{Red P}}$

List-II	
i.	Hell-Volhard-Zelinsky reaction
ii.	Gattermann-Koch reaction
iii.	Haloform reaction
iv.	Esterification

Choose the correct answer from the options given below.

[NEET (UG) 2021]

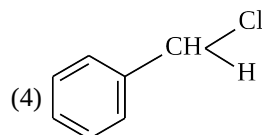
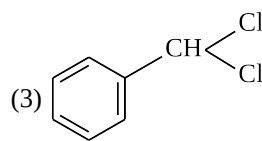
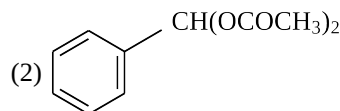
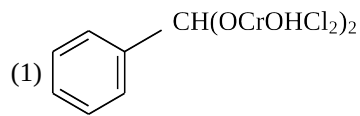
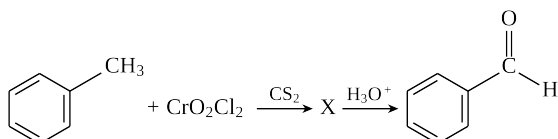
- (1) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)
 (2) (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)
 (3) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
 (4) (a)-(i), (b)-(iv), (c)-(iii), (d)-(ii)

Scan or tap for the full solution



Q.7 The intermediate compound 'X' in the following chemical reaction is :

[NEET (UG) 2021]

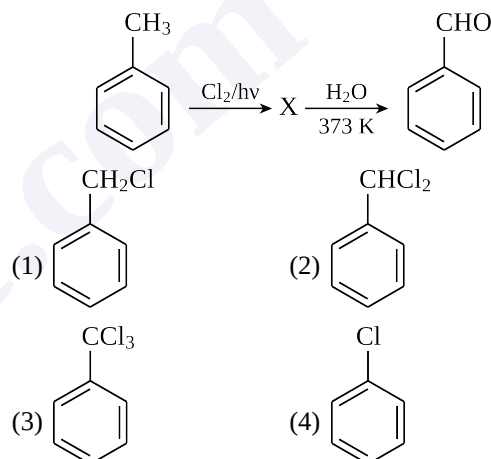


Scan or tap for the full solution



Q.8 Identify compound X in the following sequence of reactions :

[NEET (UG) 2020]

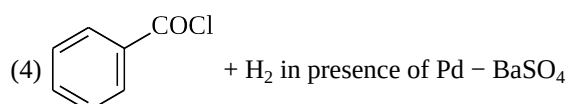
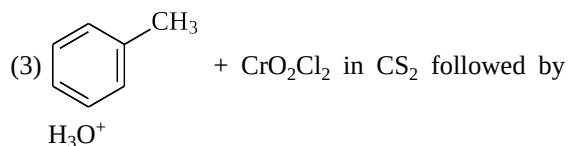
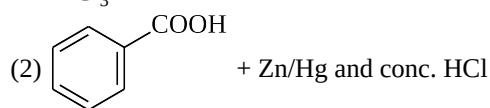
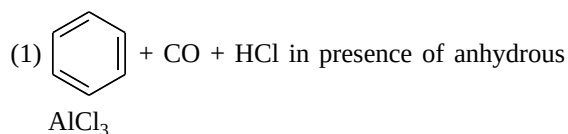


Scan or tap for the full solution



Q.9 Reaction by which benzaldehyde cannot be prepared

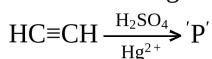
[NEET 2013]



Scan or tap for the full solution



Q.10 In the following reaction:



Product 'P' will not give [NEET 2013 (Karnataka)]

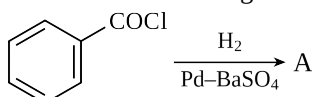
(1) Tollen's reagent test (2) Brady's reagent test

(3) Victor Meyer test (4) Iodoform test

Scan or tap for the full solution



Q.11 Consider the following reaction



The product A is [AIPMT 2012 (Mains)]

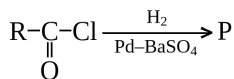
(1) C₆H₅CHO (2) C₆H₅OH

(3) C₆H₅COCH₃ (4) C₆H₅Cl

Scan or tap for the full solution



Q.12 In the following reaction product P is

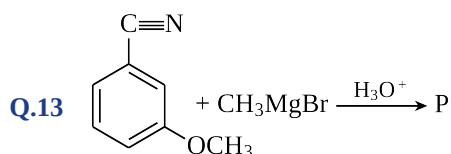


[AIPMT 2002]

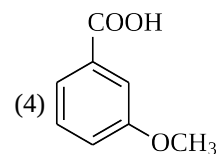
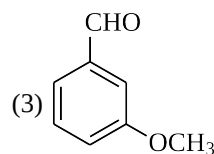
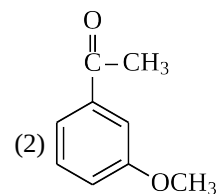
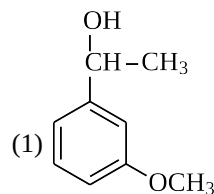
(1) RCH₂OH (2) RCOOH

(3) RCHO (4) RCH₃

Scan or tap for the full solution



Product 'P' in the above reaction is [AIPMT 2002]



Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	1	4	2	3	1	1	1	2	2	3	1
Ques.	12	13									
Ans.	3	2									