

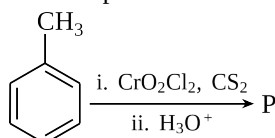
NEET ALDEHYDES, KETONES AND CARBOXYLIC ACIDS — PREPARATION OF ALDEHYDES AND KETONES — PYQS

Max. Marks: 52

Questions: 13

Section A (MCQ) — 13 questions

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

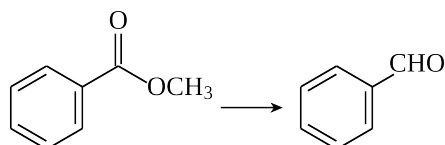


- (1) Compound P is obtained by the hydrogenation of benzoyl chloride with Pd on BaSO₄
- (2) On treating compound P with saturated NaHCO₃ solution, brisk effervescence is observed
- (3) Compound P can be prepared by treating benzene with anhydrous AlCl₃ and CH₃COCl
- (4) On treating with bromine water, 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]

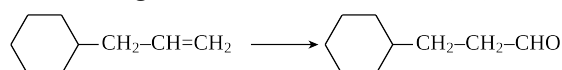


- (1) (i) NaBH₄, (ii) H⁺/H₂O
- (2) H₂/Pd–BaSO₄
- (3) (i) LiAlH₄, (ii) H⁺/H₂O
- (4) (i) AlH(iBu)₂, (ii) H₂O

Scan or tap for the full solution



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

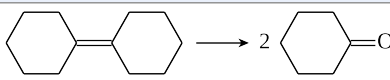
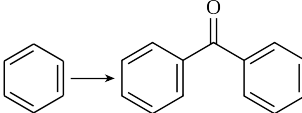
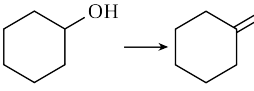
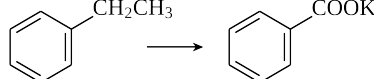


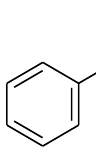
- (1) (i) H₂O/H⁺, (ii) CrO₃
- (2) (i) BH₃, (ii) H₂O₂/OH[−], (iii) PCC
- (3) (i) BH₃, (ii) H₂O₂/OH[−], (iii) alk. KMnO₄
- (4) (i) H₂O/H⁺, (ii) PCC

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.	 Cl/Anhyd. AlCl ₃
II.	CrO ₃
III.	KMnO ₄ /KOH, Δ
IV.	(i) O ₃ (ii) Zn – H ₂ O

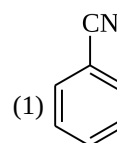
Choose the correct answer from the options given below: [NEET (UG) 2024]

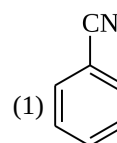
- (1) A-IV, B-I, C-III, D-II (2) A-III, B-I, C-II, D-IV
(3) A-IV, B-I, C-II, D-III (4) A-I, B-IV, C-II, D-III

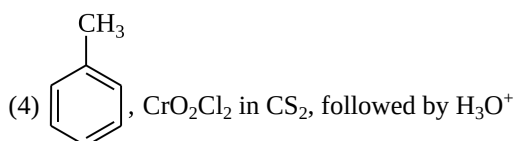
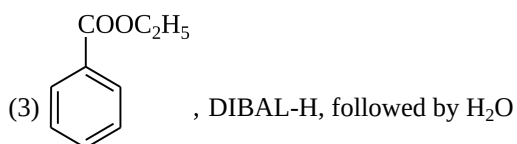
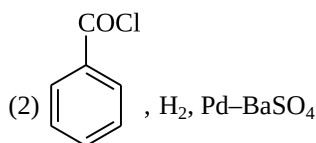
Scan or tap for the full solution



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



- (1) , CH₃MgBr, followed by H₃O⁺



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]

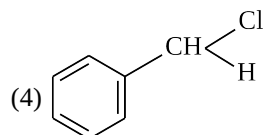
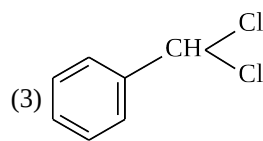
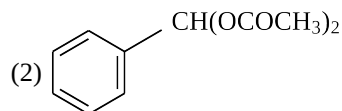
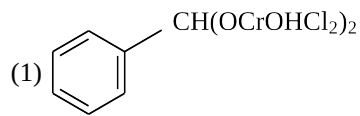
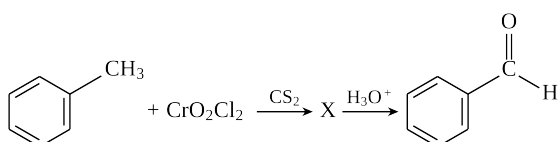
- (1) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)
 (2) (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)
 (3) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
 (4) (a)-(i), (b)-(iv), (c)-(iii), (d)-(ii)

Scan or tap for the full solution



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

[NEET (UG) 2021]

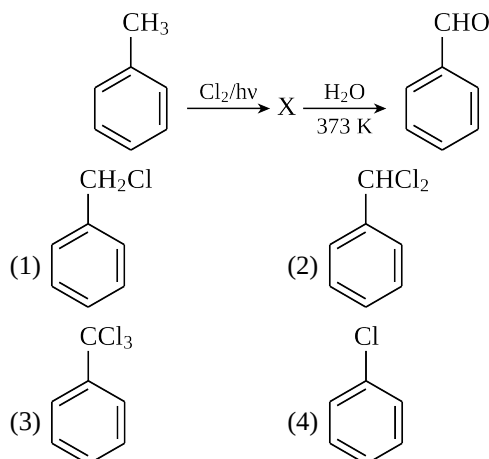


Scan or tap for the full solution



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

[NEET (UG) 2020]

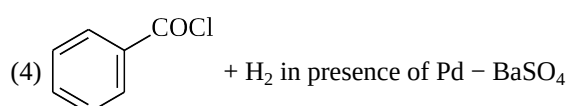
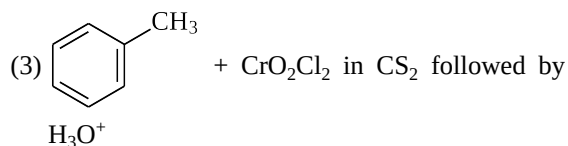
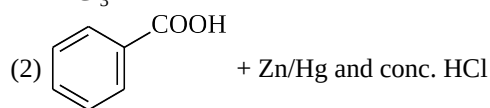
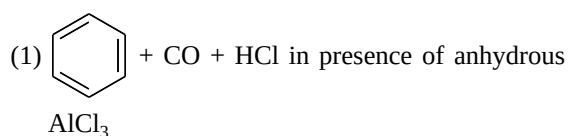


Scan or tap for the full solution



Q.9 Reaction by which benzaldehyde cannot be prepared

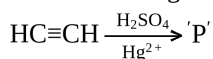
[NEET 2013]



Scan or tap for the full solution



Q.10 In the following reaction:



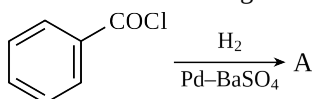
Product 'P' will not give [NEET 2013 (Karnataka)]

- (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



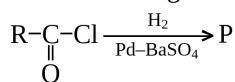
The product A is [AIPMT 2012 (Mains)]

- (1) C₆H₅CHO (2) C₆H₅OH
(3) C₆H₅COCH₃ (4) C₆H₅Cl

Scan or tap for the full solution



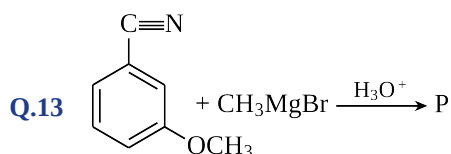
Q.12 In the following reaction product P is



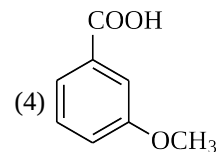
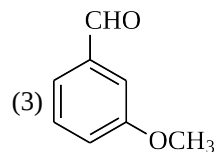
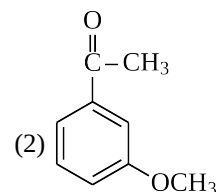
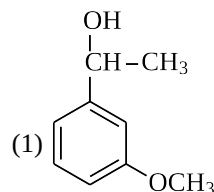
[AIPMT 2002]

- (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									