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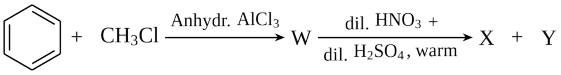
NEET PRINCIPLES RELATED TO PRACTICAL CHEMISTRY — METHODS OF PURIFICATION OF ORGANIC COMPOUNDS — PYQS

Max. Marks: 32 **Questions:** 8

Section A (MCQ) — 8 questions

Q.1 Two products X and Y are formed in the following reaction sequence.



The suitable method that can be used for the separation of products X and Y is : [NEET (UG) 2026]

(1) Continuous extraction
(2) Differential extraction
(3) Sublimation
(4) Fractional distillation

Scan or tap for the full solution

Q.2 Match **List-I** with **List-II**

List-I (Mixture)		List-II (Method of separation)	
A.	$CHCl_3 + C_6H_5NH_2$	I.	Distillation under reduced pressure
B.	Crude oil in petroleum industry	II.	Steam distillation
C.	Glycerol from spent-lye	III.	Fractional distillation
D.	Aniline - water	IV.	Simple distillation

Choose the correct answer from the options given below: [NEET (UG) 2025]

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

Scan or tap for the full solution

Q.3 On heating, some solid substances change from solid to vapour state without passing through liquid state. The technique used for the purification of such solid substances based on the above principle is known as [NEET (UG) 2024]

(1) Crystallization (2) Sublimation
(3) Distillation (4) Chromatography

Scan or tap for the full solution

Q.4 A steam volatile organic compound which is immiscible with water has a boiling point of 250°C. During steam distillation, a mixture of this organic compound and water will boil : [RE-NEET (UG) 2024]

(1) above 100°C but below 250°C
(2) above 250°C
(3) at 250°C
(4) close to but below 100°C

Scan or tap for the full solution

Q.5 Paper chromatography is an example of : [NEET (UG) 2020]

(1) Partition chromatography
(2) Thin layer chromatography
(3) Column chromatography
(4) Adsorption chromatography

Scan or tap for the full solution

Q.6 The most suitable method of separation of 1 : 1 mixture of ortho and para-nitrophenols is [NEET 2017]

(1) chromatography (2) crystallisation
(3) steam distillation (4) sublimation.

Scan or tap for the full solution

Q.7 The best method for the separation of naphthalene and benzoic acid from their mixture is [AIPMT 2005]

(1) distillation (2) sublimation
(3) chromatography (4) crystallisation.

Scan or tap for the full solution

Q.8 In steam distillation of toluene, the pressure of toluene in vapour is [AIPMT 2001]

(1) equal to pressure of barometer

(2) less than pressure of barometer

(3) equal to vapour pressure of toluene in simple distillation

(4) more than vapour pressure of toluene in simple distillation.

Scan or tap for the full solution

ANSWER KEY

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