

NEET PRINCIPLES RELATED TO PRACTICAL CHEMISTRY — QUALITATIVE ANALYSIS OF ORGANIC COMPOUNDS — PYQS

Max. Marks: 20
Questions: 5

Section A (MCQ) — 5 questions

Q.1 During Lassaigne's test, the elements present in an organic compound are converted from :

[NEET (UG) 2026]

- (1) Ionic form to ionic form
- (2) Covalent form to ionic form
- (3) Ionic form to covalent form
- (4) Covalent form to covalent form

Scan or tap for the full solution



Q.2 Which one of the following reactions does NOT belong to "Lassaigne's test"?

[NEET (UG) 2025]

- (1) $\text{Na} + \text{X} \xrightarrow{\Delta} \text{NaX}$
- (2) $2\text{CuO} + \text{C} \xrightarrow{\Delta} 2\text{Cu} + \text{CO}_2$
- (3) $\text{Na} + \text{C} + \text{N} \xrightarrow{\Delta} \text{NaCN}$
- (4) $2\text{Na} + \text{S} \xrightarrow{\Delta} \text{Na}_2\text{S}$

Scan or tap for the full solution



Q.3 In Lassaigne's extract of an organic compound, both nitrogen and sulphur are present, which gives blood red colour with Fe^{3+} due to the formation of-

[NEET (UG) 2023]

- (1) NaSCN
- (2) $[\text{Fe}(\text{CN})_5\text{NOS}]^{4-}$
- (3) $[\text{Fe}(\text{SCN})]^{2+}$
- (4) $\text{Fe}_4[\text{Fe}(\text{CN})_6]_3 \cdot x\text{H}_2\text{O}$

Scan or tap for the full solution



Q.4 Nitrogen detection in an organic compound is carried out by Lassaigne's test. The blue colour formed corresponds to which of the following formulae?

[NEET 2013 (Karnataka)]

- (1) $\text{Fe}_3[\text{Fe}(\text{CN})_6]_2$
- (2) $\text{Fe}_4[\text{Fe}(\text{CN})_6]_3$
- (3) $\text{Fe}_4[\text{Fe}(\text{CN})_6]_2$
- (4) $\text{Fe}_3[\text{Fe}(\text{CN})_6]_3$

Scan or tap for the full solution



Q.5 The Lassaigne's extract is boiled with conc. HNO_3 while testing for halogens. By doing so it

[AIPMT 2011 (Prelims)]

- (1) decomposes Na_2S and NaCN , formed
- (2) helps in the precipitation of AgCl
- (3) increases the solubility product of AgCl
- (4) increases the concentration of NO_3^- ions

Scan or tap for the full solution



ANSWER KEY

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