

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

Max. Marks: 20

Questions: 5

Section A (MCQ) — 5 questions

Q.1 On complete combustion, 0.3 g of an organic compound gave 0.2 g of CO_2 and 0.1 g of H_2O . The percentage composition of carbon and hydrogen in the compound, respectively is:

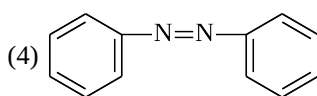
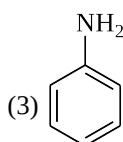
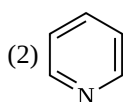
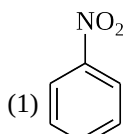
[RE-NEET (UG) 2024]

- (1) 4.07% and 15.02% (2) 18.18% and 3.70%
(3) 15.02% and 4.07% (4) 3.70% and 18.18%

Scan or tap for the
full solution

Q.2 The Kjeldahl's method for the estimation of nitrogen can be used to estimate the amount of nitrogen in which one of the following compounds?

[NEET (UG) 2022]

Scan or tap for the
full solution

Q.3 In Dumas method for estimation of nitrogen, 0.25 g of an organic compound gave 40 mL of nitrogen collected at 300 K temperature and 725 mm pressure. If the aqueous tension at 300 K is 25 mm, the percentage of nitrogen in the compound is

[AIPMT 2015 (Cancelled)]

- (1) 16.75 (2) 15.76 (3) 17.36 (4) 18.20

Scan or tap for the
full solution

Q.4 In the Kjeldahl's method for estimation of nitrogen present in a soil sample, ammonia evolved from 0.75 g of sample neutralized 10 mL of 1 M H_2SO_4 . The percentage of nitrogen in the soil is

[AIPMT 2014]

- (1) 37.33 (2) 45.33 (3) 35.33 (4) 43.33

Scan or tap for the
full solution

Q.5 In Dumas method of estimation of nitrogen, 0.35 g of an organic compound gave 55 mL of nitrogen collected at 300 K temperature and 715 mm pressure. The percentage composition of nitrogen in the compound would be (aqueous tension at 300 K = 15 mm).

[AIPMT 2011 (Prelims)]

- (1) 15.45 (2) 16.45 (3) 17.45 (4) 14.45

Scan or tap for the
full solution

ANSWER KEY

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