

## Questions with Answer Keys

MathonGo

Q1: 16 March (Shift 2) - Single Correct

Match List-I with List-II

List-I Test/Reagents/Observation(s)	List-II Species detected
(a) Lassaigne's Test	(i) Carbon
(b) Cu(II) oxide	(ii) Sulphur
(c) Silver nitrate	(iii) N, S, P, and halogen
(d) The sodium fusion extract gives black precipitate with acetic acid and lead acetate	(iv) Halogen Specifically

The correct match is:

(1) (a) – (iii), (b) – (i), (c) – (ii), (d) – (iv)

(2) (a) – (i), (b) – (iv), (c) – (iii), (d) – (ii)

(3) (a) – (iii), (b) – (i), (c) – (iv), (d) – (ii)

(4) (a) – (i), (b) – (ii), (c) – (iv), (d) – (iii)

Q2: 16 March (Shift 2) - Numerical

In Duma's method of estimation of nitrogen, 0.1840 g of an organic compound gave 30 mL of nitrogen collected at 287 K and 758 mm of Hg pressure. The percentage composition of nitrogen in the compound is

\_\_\_\_\_ (Round off to the Nearest Integer).

[Given : Aqueous tension at 287 K = 14 mm of Hg ]

Q3: 17 March (Shift 1) - Single Correct

Given below are two statements:

Statement-I : Retardation factor ( $R_f$ ) can be measured in meter/centimeter.Statement-II :  $R_f$  value of a compound remains constant in all solvents.

Choose the most appropriate answer from the options given below:

## Questions with Answer Keys

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(1) Statement-I is true but statement-II is false

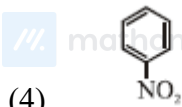
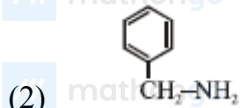
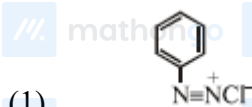
(2) Both statement-I and statement-II are true

(3) Both statement-I and statement-II are false

(4) Statement-I is false but statement-II is true

## Q4: 17 March (Shift 2) - Single Correct

Nitrogen can be estimated by Kjeldah's method for which of the following compound?



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# Answer Key

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**Q1 (3)**

**Q2 (19)**

**Q3 (3)**

**Q4 (2)**

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