



CHEMISTRY

BOOKS - ARIHANT CHEMISTRY (HINGLISH)

PURIFICATION AND ESTIMATION OF ORGANIC COMPOUNDS

Practice Exercise

1. Absolute alcohol is prepared by

A. fractional distillation

B. Kolbe's method

C. azeotropic distillation

D. vacuume distillation

Answer: C



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2. Aniline is usually purified by

A. steam distillation

B. simple distillation

C. vacuum distillation

D. extraction with a solvent

Answer: A



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3. Name the technique where extraction of compound takes place based on difference in solubility

A. Differential extraction

B. Chromatography

C. Sublimation

D. Crystallisation

Answer: A



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4. The technique used for the separation of acetone and methanol, is

- A. steam distillation
- B. vacuum distillation
- C. fractional distillation
- D. simple distillation

Answer: C



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5. The best and latest technique for isolation, purification and separation of organic compound is

A. crystallisation

B. distillation

C. Sublimation

D. chromatography

Answer: D



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6. The compound that does not give a blue color in Lassaigne's test is

A. aniline

B. glycine

C. hydrazine

D. urea

Answer: C



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7. If on adding $FeCl_3$ solution to acidified Lassaigne's solution a blood red coloration is produced, it indicates the presence of

A. N and S in the compound

B. S in the compound

C. N and P in the compound

D. Br in the compound

Answer: A



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8. An organic compound on heating with CuO produces CO_2 but no water. The organic compound may be

A. carbon tetrachloride

B. chloroform

C. methane

D. ethyl iodide

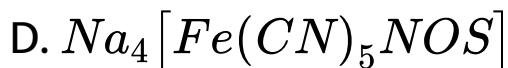
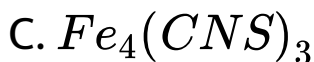
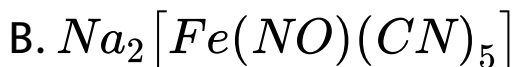
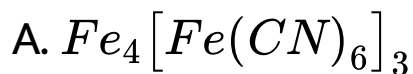
Answer: A



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9. Which of the following complex formation indicates the presence of sulphur in the organic compound when sodium

nitroprusside is added to sodium extract of the compound ?



Answer: D



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10. In sulphur estimation, 0.157 g of an organic compound gives 0.4813 g of barium sulphate.

The percentage of sulphur in the compound, is

A. 42.10

B. 52.10

C. 21.05

D. 40.01

Answer: A



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11. In Kjeldahl's method ammonia from 5 g of food neutralises 30 cm³ of 0.1 N acid. The percentage of nitrogen in the food is

A. 0.84

B. 0.4

C. 16.8

D. 1.68

Answer: A



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12. If 0.765g of an acid gives 0.535g of CO_2 and 0.138g of H_2O , then the ratio of the percentage of C to H is

A. 19:2

B. 18:11

C. 20:17

D. 1:7

Answer: A



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13. 0.59 g of an organic compound produces 112 mL nitrogen at NTP. The percentage of nitrogen in the compound through Duma's method is

A. 23.7

B. 27.5

C. 33.07

D. 16.8

Answer: A



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14. 0.12 gm of an organic compound containing phosphorus gave 0.22 gm of $Mg_2P_2O_7$ by the usual analysis. Calculate the percentage of phosphorus in the compound.

A. 31

B. 0.2

C. 66

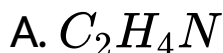
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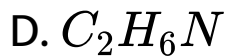
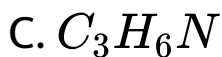
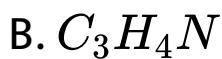
Answer: D



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15. A compound of carbon, hydrogen, and nitrogen contains the three elements in the respective ratio of 9:1:3.5 Calculate the empirical formula. If the molecular weight of the compound is 108, what its molecular formula?





Answer: B



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16. A substance is found to contain 7 % nitrogen. The minimum molecular weight of it, is

A. 700

B. 100

C. 200

D. 70

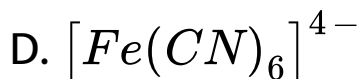
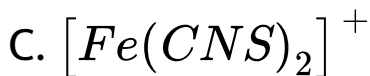
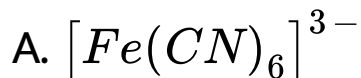
Answer: C



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17. When $FeCl_3$ is added to the sodium extract of an organic compound containing

both N and S, the red coloured precipitate is formed due to the formation of



Answer: B



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