

Answer Paper - Part I

01. (2) 02. (3) 03. (3) 04. (1) 05. (2) 06. (4) 07. (2) 08. (3) 09. (4) 10. (2)
 11. (3) 12. (3) 13. (3) 14. (4) 15. (1) 16. (4) 17. (3) 18. (3) 19. (3) 20. (1)

Part - II

(2 x 20 = 40)

- 01 (i) Food web (01m.) (ii) Paddy → Rat → Hawk (02m.)
 (iii) (a) Rat (b) Paddy (c) Hawk (03m.)
 (iv) (a) symbiosis (b) Predator (c) Parasitic (03m.)
 (v) (a) for a correct explanation (02m.)
 (b) lizard (02m.)
 (vi) Physical weathering, Chemical weathering (02m.)
- 02 (i) Correct 4 systems. (02m.)
 (ii) Nasal cavity, Trachea (½ - 02 m.)
 (iii) Lungs (01m.) (iv) exchange of gases / Inhalation, exhalation (01m.)
 (v) Carbon dioxide / CO₂ (01m.) (vi) Reproductive system (01m.)
 (vii) Shoot system, Root system (02m.) (viii) Phloem (01m.)
 (ix) Flower (01m.)
 (x) (a) Cork or a correct plant. (01m.)
 (b) Mangrove plant or a correct plant. (01m.)
 (c) Pepper / Betel or a correct plant. (01m.)
- 03 (i) having a mass and occupying a space. (02m.)
 (ii) Mixture that the appearance, composition and properties through out the entire mixture is same. (02m.)
 (iii) Homogeneous mixtures - Sugar solution / Salt solution etc., (02m.)
 Heterogeneous mixtures - Soil / Sand etc., (01m.)
 (iv) Substances cannot be separated into simple substances more. (01m.) (v) (01m.)
 (vi) (a) Turn in to white colour (01m.)
 (b) Anhydrous Copper Sulphate (01m.)
 (vii) (a) Acetylene (01m.) (b) for ripening fruits / for producing oxyacetylene (01m.)
 (viii) (a) Hydrogen (b) Costic Soda / Auminium pieces of Zinc (02m.)
- 04 (i) Volume = 2cm x 2cm x 2cm = 8cm³ (02m.)
 (ii) Over flow vessel / Ureka vessel, Small beaker, Measuring cylinder (03m.)
 (iii) Density = $\frac{\text{Mass}}{\text{Volume}}$ (01m.)
 (iv) Density of certain substance relatively to that of water. (02m.)
 (v) Relative density = $\frac{\text{density of substance}}{\text{density of water}} = \frac{7900\text{kgm}^{-3}}{1000\text{kgm}^{-3}} = 7.9$ (02m.)
 (vi) Substances which flows electric current (01m.)
 (vii) Transistor / diode / LED bulb / Memory chip (½ - 01 m.)
 (viii) A - Switch / B - Electrical cell / C - Light Emitting diode / LED (03m.)
- 05 (A) (i) (a) (Lemon) Lime / Vinegar / Goraka (Gorcinia) etc., (01m.)
 (b) Lime / Soap / Washing Powder etc., (01m.)
 (c) Sugar / Water / Kerosene oil etc., (01m.)
 (ii) Litmus / pH papers / Phenopthelene / Methyl orange (02m.)
 (iii) Juice of butterfly pea (Nil Katarolu) / Juice of shoe flowers / Turmeric (02m.)
 (iv) (a) Citric acid (b) Tataric acid (02m.)
 (B) (i) + charges - charges (02m.) (ii) gold leaf electroscope (02m.)
 (iii) Lightning conductor (02m.)

தரம் 01 - 10

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ஆரம்பம் - 01.12.2024

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