

Answer Paper - Part I

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

PART - II

(2 x 20 = 40)

01 (i) Substances formed by same type of atoms and can not be separated into simple substances chemically. (02m.)
 (ii) (a) Cu (b) C (c) W (d) Pb ($\frac{1}{2}$ - 02m.)
 (iii) Gold/Au (01m.)
 (iv) (a) For 2 correct properties. / For 2 correct uses. ($\frac{1}{2}$ - 02m.)
 (b) For 2 correct properties. / For 2 correct uses. ($\frac{1}{2}$ - 02m.)
 (v) (a) molecules composed of atoms of the same type. (01m.)
 (b) For correct answer. (01m.)
 (vi) Hydrogen (H_2) and Oxygen (O_2) ($\frac{1}{2} \times 2 = 01m.$)
 (vii) (a) Supporter of combustion / dissolves in water slightly. / Colourless / odourless ($\frac{1}{2} \times 2 = 01m.$)
 (b) Producing dry ice / Manufacturing cool drinks / For fire extinguishers. (02m.)

02 (i) Force acts perpendicularly on a unit area. (01m.)
 (ii) Pressure = $\frac{\text{Force}}{\text{Area}} = \frac{60000\text{N}}{4\text{m}^2} = 15000\text{Nm}^{-2}/\text{Pa}$ (02m.)
 (iii) (a) Using a broad chain in order to wheels. (01m.)
 (b) to increase pressure exert on ground. (01m.)
 (iv) Pressure acts every direction / Pressure is equal at the same level / Pressure is increasing when depth is increasing. (03m.)
 (v) For a correct answer. (01m.) (vi) Mercurt barometer (01m.)
 (vii) For 2 correct uses. (02m.)
 (viii) The point where the total weight of all particles composed an object acts. (01m.)
 (ix) Center of gravity is being closer to earth increasing the area of lower part of the object. (02m.)

03 (A) (i) Mass of unit volume (01m.)
 (ii) Killogramms per cubic meter / Kgm^{-3} (01m.)
 (iii) (a) For a correct answer. (01m.)
 (b) For a correct answer. (01m.)
 (B) (i) (a) Five marks for the idea similar to that the metal shpere contacts with bottom of base stand. (01m.)
 (b) iron sphere goes up / or similar idea. (01m.)
 (c) When heating metal wire, it is expanded (contracting when cooling) (02m.)
 (ii) Bi metalic strip (02m.)
 (iii) Air in the balloon is expanded when heating. (02m.)
 (iv) For 3 correct uses. (03m.)

04 (A) (i) light / water / air / soil (03m.)
 (ii) (a) germination ofseeds. (01m.) (b) borning cubs in eggs. (01m.)
 (B) (i) Chena cultivation (01m.) (ii)Albert solution (02m.)
 (iii) Contains all the nutrients needed for plant. / does not poisonous for roots. / dissolves in water well / does not react with the container. (for 3 answers) (02m.)
 (iv) For correct explaination (03m.)
 (v) Mushroom cultivation / Green house cultivation (02m.)

05 (i) Natural aquatic environment. (01m.) (ii) For 3 correct features. (03m.)
 (iii) For 2 correct pants. (02m.) (iv) Kithulgala / Kanneliya (02m.)
 (v) Year 1989 (01m.)
 (vi) Anuradhapura / Polonnaruwa / Batticaloa / Ampara (01m.)
 (vii) for correct answer. (02m.)
 (viii) 2 differences, if they are written in comparatively give marks. (02m.)
 (ix) Wasp / hornet / bee / centipede / scorpion / Tarantula (01m.)