Answer Paper - Part I

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

(2 x 20 = 40)

Part II

01 (1) food web (02 m.) (2) terrestrial environment / forest (02 m.)
(3) give marks for a correct food chain with 4 links. (02 m.)
(4) 1 mark for each correct answer. (02 m.)
(5) (a) entering into its shell. (02 m.)
(b) possessing colouration to fits to the environment / (similar idea) (02 m.)
(6) 1 mark for each correct answer (02 m.)
(7) paracitism (01 m.)

02 (1) transportation of substances in the body (01 m.) (2) heart (02 m.)
(3) arteries, veins, capillaries (03 m.) (4) stethescope (03 m.)
(5) (a) excretory system (kedneys) (b) respiratory system (02 m.)
(6) A - kidney B - ureter C - bladder D - urethra (04 m.)
(7) Urine (01 m.)

03 (1) space occupied by an object (02 m.)
(2) volume = length x breadth x height (02 m.)
(3) Volume = 6cm x 4cm x 5cm = 120 cm^3 (03 m.)
(4) overflow vessel (01 m.) beaker (01 m.) measuring cylinder (01 m.)
(5) mass of a unit volume (02 m.) (6) killograms per cubic meter / kgm^{-3} (01 m.)
(7) hydrometer (01 m.) (8) 1000 (kgm^{-3}) (01 m.)

04 (1) water, air (oxygen) carbondioxide, heat, soil (3 of above answer) (03 m.)
(2) adaptations shown by organisms for overcoming unfavourable environmental conditions. (02 m.)
(3) naming a correct plant (02 m.)
(4) hibernation (02 m.)
(5) movement of animals from one place (country) to another place (country) for the purpose of evading unfavourable environmental conditions or for reproduction. (02 m.)
(6) physical weathering chemical weathering (02 m.)
(7) decomposers (02 m.)

05 (1) distance travelled in unit time (02 m.)
(2)

$$\text{speed} = \underset{\text{(01 m.)}}{\frac{\text{distance}}{\text{time}}} = \underset{\text{(01 m.)}}{\frac{200\text{ m}}{25\text{ s}}} = \underset{\text{(01 m.)}}{8(ms^{-1})} \quad \text{(03 m.)}$$

(3) killometers per hour (02 m.) (4) kmh^{-1} (01 m.)
(5)

$$\text{Time} = \frac{\text{distance}}{\text{speed}} = \frac{300\text{ m}}{60\text{ kmh}} = 5\text{ h (hours)} \quad \text{(02 m.)}$$

(6) Number of periods in unit time (02 m.)
(7)

$$\text{rate of rotation} = \frac{\text{number of rounds}}{\text{time taken}} = \frac{60\text{ rounds}}{5\text{ minutes}} = 12\text{ rounds per minute} \quad \text{(02 m.)}$$

06 (1) cactus, Nawahandi etc. (02 m.)
(2) two animals like earth worm, centipede, termite, millipede (02 m.)
(3) fungus, algae (02 m.) (4) water (rain) / wind (02 m.)
(5) measuring cylinder, burette, pipette (6) 1000 (02 m.)
(7) photosynthesis (02 m.)