

Science

Grade 07

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Time: 02 Hours

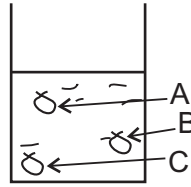
Name/ Index No.

Part I

• Answer all questions.

- 01 An animal can be named as a herbivore is,
(1) bear (2) crow (3) Mynah (4) butterfly
- 02 Answer which shows producer and second defended respectively in the food chain
plant → rabbit → fox is,
(1) rabbit, fox (2) plant, crow (3) plant, fox (4) fox, plant
- 03 Not a migrating bird is,
(1) dove (2) flamingo (3) quail (4) robin
- 04 The group comprises the plant drynaria is
(1) xerophytes (2) aquatic plants (3) mangroves (4) epiphytes
- 05 Not a factor taken by organisms from abiotic environment is,
(1) water (2) food (3) air (4) warmth
- 06 Four equal boxes of matches are filled with sugar, flour, wool and sand. Which of the followings is equal in all 4 boxes.
(1) mass (2) relative density (3) volume (4) density
- 07 Standard unit of speed is,
(1) ms^{-1} (2) cms^{-1} (3) kmh^{-1} (4) mh^{-1}
- 08 If a wheel of cycle rotates 100 rounds within 5 minutes, its rate of rotation in rounds per minute is,
(1) 5×100 (2) $5 \div 100$ (3) $100 \div 5$ (4) $5 + 100$
- 09 'Plimsoll line' can be seen on
(1) body of aeroplane (2) hull of ships
(3) body of motor vehicles (4) yoke of bullock cart
- 10 Volume of a cube shape object having length, breadth, height 6m, 4m, 2m respectively is,
(1) 24 m^3 (2) 18 m^3 (3) 8 m^3 (4) 48 m^3
- 11 Basic building unit of body of organisms is,
(1) tissue (2) system (3) organ (4) cell

12 Following diagram shows 3 polythene bags filled with kinds different which immersed in a vessel of water. Here A, B, C, can be,



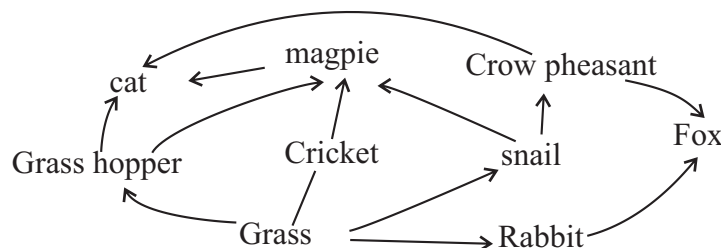
- (1) stones, coconut oil, kerosene oil
 - (2) kerosene oil, coconut oil, stones
 - (3) coconut oil, stones, kerosene oil
 - (4) kerosene oil, stones, coconut oil
- 13 The special type of roots can be seen in betel is,
- (1) fibrous roots
 - (2) clinging roots
 - (3) stilt roots
 - (4) prop roots
- 14 The blood vessel brings blood out from heart is,
- (1) vein
 - (2) artery
 - (3) capillary
 - (4) none of the above
- 15 Main excretory organ of human body is,
- (1) kidneys
 - (2) lungs
 - (3) skin
 - (4) all above
- 16 Speed of light is,
- (1) 330 ms^{-1}
 - (2) $300000000 \text{ ms}^{-1}$
 - (3) 1500 ms^{-1}
 - (4) 300000 ms^{-1}
- 17 Amount of urine filtered by kidneys of a health person per day is about,
- (1) 0.5 - 1 l
 - (2) 1 - 2 l
 - (3) 3 - 4 l
 - (4) 5 - 6 l
- 18 The system which transports substances in human body is,
- (1) respiratory system
 - (2) excretory system
 - (3) blood circulatory system
 - (4) digestive system
- 19 The tissue which adapted for the transportation of water in a plant is,
- (1) phloem tissue
 - (2) xylem tissue
 - (3) stomata
 - (4) epithelial tissue
- 20 The organ which adjusted for sexual reproduction of a plant is,
- (1) seeds
 - (2) roots
 - (3) flowers
 - (4) fruits

(02 x 20 = 40 marks)

Part II

• Answer 4 questions.

01 Following is a diagram prepared by a group of students to study the competency of 'inter relationships of organisms.



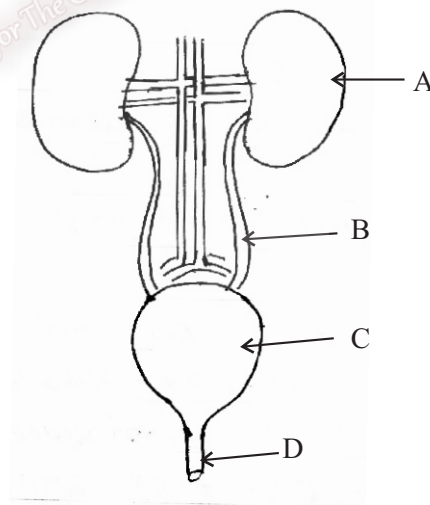
- (1) What is the name used for above diagram? (02 m.)
- (2) What type of environment was used by students for this diagram? (02 m.)
- (3) Write a food chain with 4 links in the above diagram. (02 m.)
- (4) Name the producer and second dependant of the above food chain. (02 m.)

- (5) From the animals given in the above diagram,
- (a) What is the protective behaviour can be seen in snails ? (02 m.)
- (b) What is the adaptation for protection of grass hopper ? (02 m.)
- (6) Select a terrestrial animal and an arboreal animal from the above diagram and write them separately. (02 m.)
- (7) One of the students mentioned that there would be ticks on the body of cat. There what is the name to be used for the relationship between tick and cat ? (01 m.)

02 Human body is made up of several systems. One of them is blood circulatory system.

- (1) What is the main function of human blood circulatory system ? (01 m.)
- (2) What is the organ which supplies force for the process of blood circulation ?(02 m.)
- (3) Name main 3 types of blood vessels of this system. (03 m.)
- (4) What is the instrument used by doctors for observing heart beat ? (02 m.)
- (5) Two substances transported by this system are given below. Mention that from where does each substance added to blood circulatory system.
- (a) urea (b) oxygen (02 m.)

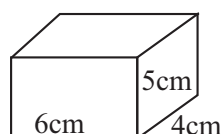
- (6) One of systems you mentioned above in (a) and (b) is given below. Name its parts A, B, C, D. (04 m.)



- (7) What is the name used for the fluid comprises excretory substances released by the above system ? (01 m.)

03 Measurements such as volume, density, speed, rate are used to describe substances and phenomena in the environment.

- (1) What is meant by Volume of a liquid ? (02 m.)
- (2) Write down the equation used for finding volume of a regular solid. (02 m.)
- (3) Find the volume of the following regular solid. (03 m.)



- (4) Mention 3 instruments you use to measure volume of an irregular object in laboratory. (03 m.)
- (5) Describe what the density is. (02 m.)
- (6) What is the standard unit of measuring density? (01 m.)
- (7) What is the instrument used for measuring density of a liquid in laboratory. (01 m.)
- (8) What is the density of water? (01 m.)
- 04 Both biotic and abiotic environment are necessary for the survival of organisms, equally.
- (1) Write 3 abiotic (non-living) factors necessary for organisms. (03 m.)
- (2) What is perennation? (02 m.)
- (3) Mention a plant which shows perennation. (02 m.)
- (4) How does name the living of some animals like squirrels, rabbits inside hollows in trees inactively until the end of winter season? (02 m.)
- (5) What is known as migration? (02 m.)
- (6) Mention 2 main ways of weathering of rocks. (02 m.)
- (7) How does name the organisms which decompose organic matter? (02 m.)
- 05 (1) What is speed? (02 m.)
- (2) If a sportsman spent 25 seconds to run 200 m distance, find his speed. (03 m.)
- (3) What is the unit of speed given in speedometers of vehicles? (02 m.)
- (4) Write the standard symbol of that unit. (02 m.)
- (5) What is the time in hours taken by a motor car which travels 300 km distance with an average speed of 60 kilometers per hour? (02 m.)
- (6) What is the rate of an incident? (02 m.)
- (7) Find the rate of rotation of a wheel, if it rotates 60 rounds within 5 minutes. (02 m.)
- 06 (1) Name two xerophytic plants. (02 m.)
- (2) Name two soil animals. (02 m.)
- (3) Name two types of micro organisms live in lichens. (02 m.)
- (4) Mention two factors which affect for soil erosion. (02 m.)
- (5) Mention 3 equipments used for measuring liquids in laboratory. (03 m.)
- (6) How many milliliters contain in 1 liter? (02 m.)
- (7) How does name the process of producing food in plants? (02 m.)