

Science

Grade 06

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Time: 02 Hours

Name/ Index No.

Part I

- Answer all questions on this paper itself.
 - Put (✓) mark at the correct statements and (x) mark at the false statements.
- 01 Photosynthesis is a common characteristic of organism. ()
 - 02 Standard unit of mass is kilo grams. ()
 - 03 Kathurumurunga leaves show sleeping movement when they are touched. ()
 - 04 Water has no definite volume. ()
 - 05 'Mobility' can be seen in animals but not in many plants. ()
- Select the most suitable word from the words given within the brackets and fill in the blanks.
- 06 Carbondioxide gas and needed for producing food in plants.
(water / air)
 - 07 The ability of a metal to be drawn into thin sheet by hammering is known as
..... (ductility / malleability)
 - 08 Salt is produced at a saltpan by sea water. (vapourizing /
condensing)
 - 09 Water in lagoons is known as (brackish water / brine water)
 - 10 Instrument used for observing micro-organisms is (concave lens
/ microscope)
- Underline the correct answer from the answers given.
- 11 The gas released by plants at the photosynthesis to the environment is,
(1) Carbon dioxide (2) Oxygen (3) Nitrogen (4) Water vapour
 - 12 Nutritional method of butterfly is,
(1) herbivorous (2) carnivorous (3) omnivorous (4) paracitism
 - 13 Reason for using rubber when producing gloves is,
(1) because of elasticity (2) because of ductility
(3) because of plasticity (4) because of malleability
 - 14 Not a variety of energy is,
(1) Light (2) heat (3) sound (4) air
 - 15 A form of water in gaseous state is,
(1) steam (2) mist (3) glacier (4) snow
 - 16 The instrument used to measure a definite volume of liquid at the laboratory is,
(1) beaker (2) conical flask
(3) test tube (4) measuring cylinder
 - 17 A plant with a tap root is,
(1) cashew (2) coconut (3) sugar cane (4) Paddy

- 18 A person who does not take oxygen artificially for respiration is,
 (1) climbers (2) divers (3) sportsmen (4) incurable patients
- 19 When making bubbles by exhaling air into a test tube with lime water through a drinking straw, an observation can be seen in the solution is,
 (1) being light blue colour
 (2) turning milky / cloudy
 (3) depositing brownish substance at the bottom
 (4) being pink colour
- 20 Substance used in the instrument which used for cutting glass is,
 (1) graphite (2) crystal (3) steel (4) diamond
 (02 x 20 = 40 marks)

Part II

- **Answer 04 questions.**
 - **Answer the questions on given space of this paper itself.**
- 01 Followings are two pages of a field book used by a group of grade 6 students at a field trip doing for studying wonder of biosphere.

Things which observed	Specimens collected
Butterfly, memosa plant, parrot caterpillars, snails, coconut tree a large rock, pond filled with water a creeping snake, a jak tree	❖ small amount of water taken from the pond. ❖ some feathers of birds ❖ Several different herbs. ❖ plant leaves ❖ dead butterfly

- (1) Mention two instruments used by them to observe the body parts of the parrot on a branch of a tree and the caterpillar on a plant leaf clearly.
 (i) parrot - (ii) Caterpillar - (2 m.)
- (2) Name the animal given in above note which can be caused for loss of life at this field trip. (1 m.)

- (3) Mention an action to be taken to protect from those animals. (1 m.)

- (4) Using above diagram,
 (i) Mention 2 non living things. (2 m.)
 (i) (ii)
 (ii) Mention a special feature of memosa plant. (1 m.)

- (5) Name two animals would be in the pond full of water.
 (i)..... (ii)..... (1 m.)
- (6) Which type of organisms can be observed when observing the water collected as a specimen using microscope at the laboratory. (1 m.)

- (7) Mention a use of those organisms and a harm can be happened because of them.
 Use -
 harm - (2 m.)

(8) Mention 6 instruments should be brought when participating in a field trip. (3 m.)

.....
.....

(9) Mention a things can be met in a field trip which cannot be classfield as living or non-living. (1 m.)

.....
.....

02 (1) Write 5 common characteristics of organisms. (5 m.)

(i) (ii)

(iii) (iv)

(v)

(2) A table with differences between plants and animals is given below. Write the answer suitable for the blank.

	Characteristics of plants	Characteristics of animals
1.	show movements
2.	heterotrophic
3.	has chloroplast.
4.	no limit in growth (4 m.)

(3) Classify the following animals using dichotomous key. (6 m.)
earth worm, cow, rabbit, crow

03 Matter is in 3 physical states as solid, liquid, gas.

(1) Mention 2 characteristics of matter. (2 m.)

(i) (ii)

(2) How does name the things which do not have the characteristics you mentioned above?

..... (1 m.)

(3) Write two examples for those things. (2 m.)

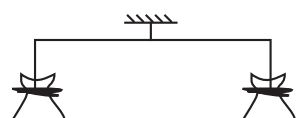
(i) (ii)

(4) Mention 3 main states of matter. (3 m.)

(i) (ii) (iii)

(5) Write down physical state of matter having a definite volume but no definite shape.

..... (1 m.)

(6)  This figure shows an activity done by students in the class room for science subject. Balloons A and B are in horizontal level.

(a) What is the reason for A and B balloons to be in a horizontal position? (1 m.)

.....

(b) What will happen to the balance, when balloon A is pinched? (1 m.)

.....

- (c) Draw a diagram to show the position of A and B balloons after A balloon is pinched. (4 m.)

04 Water on the earth is in 3 states as solid, liquid and gas.

- (1) Write 3 forms of water on the earth in solid state. (3 m.)
(i) (ii) (iii)
- (2) One of main ways of existing water is precipitation. Mention two types of precipitation. (2 m.)
(i) (ii)
- (3) Write down the other two ways of existing water in liquid state. (2 m.)
.....
.....
- (4) Water can be categorised into 3 types according to the amount of salt dissolved in. Name those 3 types. (3 m.)
(i) (ii) (iii)
- (5) Which type of water mentioned above is used to produce Salt ? (1 m.)
.....
- (6) Write two ways that water is important to the functions of body of organisms. (2 m.)
(i) (ii)
- (7) What is the percentage of water on the earth can be taken for consumption. (2 m.)
.....

05 Give short answer for the following questions.

- (1) How does name the locomotion of snakes ? (1 m.)
- (2) What is the gas contained in exhale air than inhale air ? (1 m.)
- (3) Write substances which are taken from ground and atmosphere for producing food in plants.
(a) ground
(b) atmosphere (2 m.)
- (4) What is the instrument used to measure volume of liquids in laboratory ? (2 m.)
.....
- (5) What is 'brittleness'? (2 m.)
- (6) Name two substances which are suitable for making wires. (2 m.)
(i) (ii)
- (7) Write down the chemical name of salt used for food. (2 m.)
- (8) What is the instrument used to measure the rain fall ? (2 m.)
- (9) Which one has more mass from one litre of fresh water and one litre of marine water ? (1 m.)