

SOUTHERN PROVINCIAL DEPARTMENT OF EDUCATION

MID YEAR TEST - 2019

GRADE - 6

SCIENCE

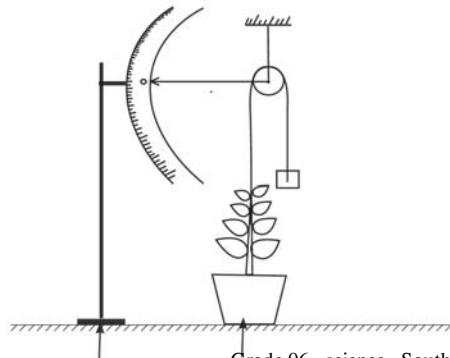
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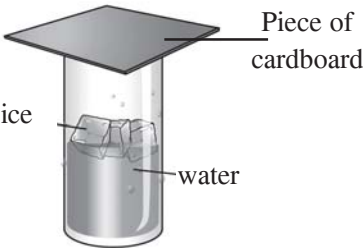
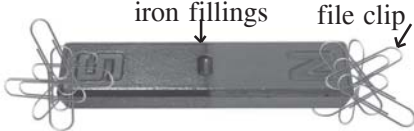
Time : 2 Hours

Part I

- I Answer all the questions.
- I Underline the most suitable answer.

01. The organism who stops its growth after a certain time is,
(1) Grass (2) Mango (3) Coconut (4) Dog
02. A kind of micro-organism that can be seen in water rotted with hay is,
(1) Amoeba (2) Paramecium (3) Bacteria (4) Euglena
03. This is a material that takes a space and has a mass,
(1) air (2) heat (3) sound (4) light
04. An instrument used in the laboratory to measure the volume of liquids is,
(1) beaker (2) test tube (3) measuring cylinder (4) flask
05. A manner that water is important for existence of life of organisms is,
(1) for sanitary purposes (2) for agricultural purposes
(3) to generate electricity (4) to digest food
06. This is a musical instrument that produces sound similar to the way that serpina produce sound.
(1) violin (2) sitar (3) rabana (4) flute
07. A life process that takes place only in plants is,
(1) growth (2) movements (3) photosynthesis (4) respiration
08. This is used to identify the gas emitted in respiration by organisms,
(1) water (2) colourless lime water
(3) sodium chloride (4) copper sulphate
09. To observe which characteristic of plants is this instrument used?
(1) weight
(2) height
(3) growth
(4) movements



10. The matter which does not have a definite shape though it has a definite volume is,
 (1) mercury (2) smoke of joss sticks
 (3) oxygen gas (4) cotton wool
11. The matter with a rough texture is,
 (1) powder (2) cotton wool (3) sand paper (4) iron
12. This plant grows in mangrove environments,
 (1) Sonneratia (kiralala) (2) Bimthamburu (3) Pandanus (wetakeyya) (4) Cactus (pathok)
13. The most correct answer which shows the observation that can be seen at the end of the activity shown in the diagram is,
 (1) dissolving ice cubes
 (2) cooling water
 (3) depositing water vapour on the piece of card board
 (4) depositing water vapour on the outer surface of the glass.
- 
14. The correct statement out of the statements below is,
 (1) the animals are autotrophic
 (2) there is no pigment chlorophyll in animals' body
 (3) plants need oxygen gas for photosynthesis
 (4) there is a limit for the growth of plants.
15. The activity shown below was done by using a magnet. The conclusion that can be attained by it is that,
 (1) there is more iron fillings at the two ends of the magnet.
 (2) the attraction forces at the poles of the magnet is high.
 (3) there are two poles as north pole and south pole in a magnet
 (4) there are no attraction forces at the middle of a magnet.
- 
16. Select the answer which contains an artificial sound and natural sound respectively.
 (1) sound of a temple bell, lightning (2) sound of a bell, sound of a motor
 (3) forming sea waves, sound of a whistle (4) sound of a bird, sound of a "takaya"
17. The answer which shows a luminous and non-luminous object respectively is,
 (1) glow worm, moon (2) firefly, sun
 (3) planet, moon (4) moon, mushrooms
18. The answer which shows an opaque, transparent translucent materials respectively is.
 (1) tar, oil papers, glass (2) wood, muddy water, coloured tissue paper
 (3) papers, colourless polythene, oil papers (4) metals, glass, colourless polythene
19. This is not a benefit obtained from light.
 (1) producing food by light (2) for communication purpose
 (3) to give signals which show a danger (4) for the production of electric bulbs
20. This is not a remedy for the energy crisis taken place in the future.
 (1) reducing consumption of energy (2) using energy economically
 (3) using more fossil fuels (4) using alternative sources of energy

Part II

Question no 01 is compulsory. Select any four questions from the other six questions and answer for 05 questions.

01. Several plant leaves collected by students in grade 6 in a field trip around the school are shown below.

(A)



bo

A



curry leaves

B



rubber

C



jak

D



mango

E

(i) Name the two main groups that the above leaves can be classified if they are classified using a dichotomous key.

(i)

(ii)

(ii) Write a special feature that can be seen in a bo leaf.

.....

(iii) Name another plant leaf similar to a curry leaf which is not present above.

.....

(iv) What is the benefit obtained from a dichotomous key in the classification of organisms?

.....

(v) Mention a feature that differs curry leaves and rubber leaves from each other.

.....

(B) The organisms collected from the above field trip are grouped in to three groups.

(i) What are the above three groups?

(i) (ii) (iii)

(ii) One species of organisms collected from the field trip cannot be seen by the naked eye. Name an instrument that can be used to observe such organisms.

.....

(iii) Mention a place/ environment that the above organisms can be present.

.....

This diagram shows a device fixed on the roof of certain houses.

(C) (i) Identify this device and name it.

.....

(ii) What is the use of it?

.....

.....

(iii) Explain the reason for being this more advantages.

.....

(iv) Mention two other instances that solar energy is used in the home.

(i) (ii)

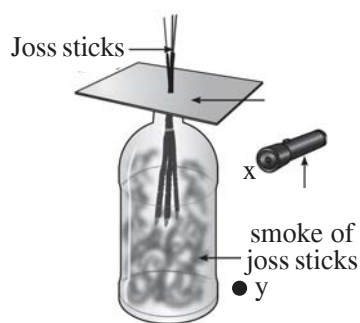


02. (A) A simple activity done in the classroom is shown below. Smoke of joss sticks was put in to the bottle and laser torch was lit up.

(i) Draw the path of the light ray emitted from the place x in the above diagram.

(ii) When the place of the torch is changed from x to y, what will happen to the path of the light ray?

.....



(iii) What is the conclusion you can attain from this activity?

.....

(iv) Mention the reason for the laser torch being more suitable than the normal torch for this activity?

.....

(v) Mention two instances that laser rays are used in the medical field.

(i)

(ii)

(B) This diagram shows a musical instrument made by using 6 pen tubes in which one end is closed and gum tape and a stripe of cardboard.

(i) How is sound produced by this?

.....

(ii) Will each tube creates a same rhythm?

.....

(iii) Mention the reason for your answer.

.....

(iv) What do you call the non-formal sounds without a rhythm?

(v) Mention a factor that should be considered when we use instruments with various sounds?

.....



03. Specific properties of solid matter are used in making various materials. Fill the table below using materials used in day to day life.

(A)

Instance of using	Materials used	Specific properties of the mater used
Making jewellery	(i)	(ii)
(iii)	rubber	(iv)
Making sheets	iron	(v)
used for cutting glass	(vi)	hardness

- (B) This diagram shows an instance of using bio mass.

(i) What is shown by this diagram?

.....

(ii) Mention two bio masses that can be used for this.

(i)

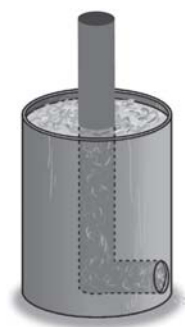
(ii)

(iii) Write an instance of using this.

.....

(iv) Mention an error that takes place when this is used.

.....



04. A simple set-up prepared by a group of students is shown below.

(A) (i) Name the parts A, B and C.

A -

B -

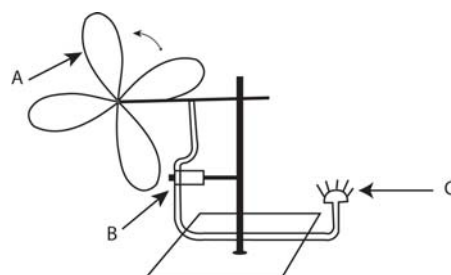
C -

(ii) What is the form of energy used here?

.....

(iii) The students who prepared the set-up could not see any observation in C. Mention a reason for it.

.....



- (B) This diagram shows how exhaled air is bubbled through lime water.

(i) Write the observation that can be obtained after sometimes.

.....



(ii) What is the conclusion you can attain from this activity?

.....

(iii) Mention another method that the above-mentioned gas enters the atmosphere.

.....

(iv) Mention two human activities that affect increasing the above gas in the environment.

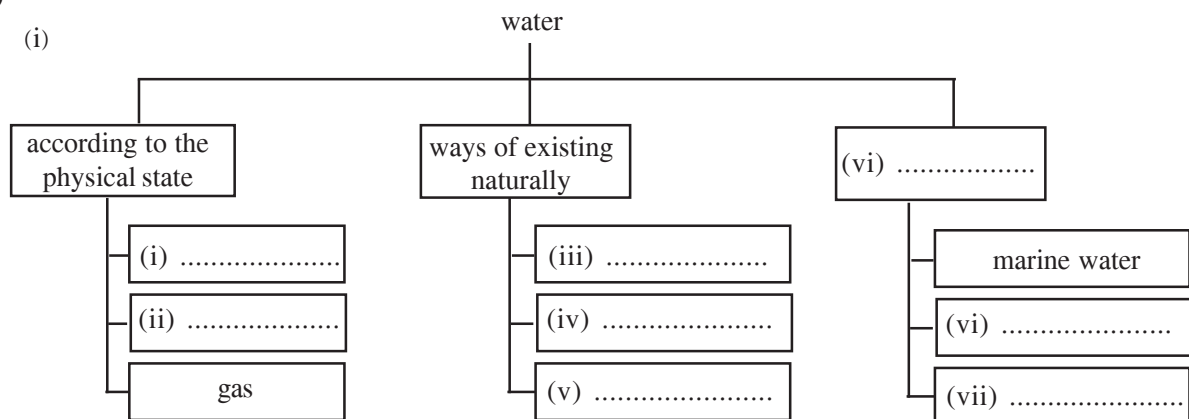
(i)

(ii)

05. Water is a natural resource, Water is available in our environment in various ways. Fill in the blanks studying the chart given connected with water.

(A)

(i)



(ii) Mention two instances that water is going waste in the home.

(i)

(ii)

(iii) Write a step that can be taken to avoid these instances of wastage of water.

.....

(B) Identify the kinds of magnets shown below and name them.



.....
 (i) (ii) (iii) (iv)

(06) (A) This diagram shows how small pieces of papers are placed on a rabana.

(i) What will happen to the pieces of papers, when you tap to the rabana?

.....

(ii) Mention the reason for your answer.

.....

.....

(iii) What is the organ that helps man to hear these sounds?

(iv) Mention an action that can be taken to protect this organ.

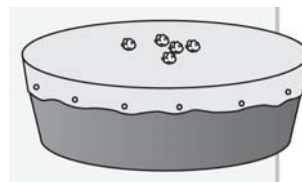
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(v) (i) What are meant as sources of sound?

.....

(ii) Mention two examples for sources of sound.

.....



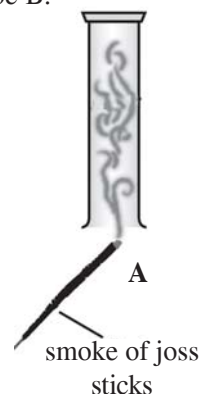
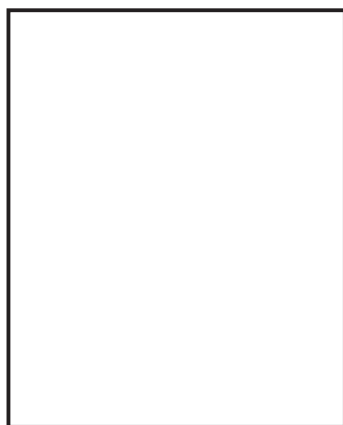
(B) The tube A is filled with smoke of joss sticks. Later it is closed with another tube B.

(i) Draw the observation you obtain when tube A is closed with tube B in the given cage.

(ii) What is the conclusion you attain from this activity?

.....

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SCIENCE - ANSWER

Part I

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

Part II

- | | |
|--|--|
| 01.A.(i) Leaf is divided in to leaflets.
Leaf is not divided as leaflets. (02 m.) | 02. A. (i) x \tilde{O} (01 m.) |
| (ii) Tip of the leaf is too long.
Has a long nib. (01 m.) | (ii) In a straight line from y. (01 m.) |
| (iii) Sesbania. any similar relevant answer (01 m.) | (iii) Light travels in straight line. (01 m.) |
| (iv) Identifying organisms easily. (01 m.) | (iv) Can obtain a very sharp beam of light. (01 m.) |
| (v) Leaflets of curry leaves are not divided from one place. Rubber leaflets are divided from one place. (01 m.) | (v) Removing cataract in the eye, heart operations, to cure wounds in stomach. (02 m.) |
| B. (i) Plants, animals, micro-organisms (03 m.) | B. (i) By blowing to the top of the tubes. (01 m.) |
| (ii) Compound microscop. (01 m.) | (ii) No. (01 m.) |
| (iii) An environment of a pond. (any suitable place) (01 m.) | (iii) Changing the length of the tubes. (01 m.) |
| | (iv) Noises. (01 m.) |
| | (v) Using sound without disturbing others/ Wearing ear protectors. (01 m.) |
| | <u><u>(11 m.)</u></u> |
| C. (i) Solar water heater. (01 m.) | 03. A. (i) Gold |
| (ii) Using for heating water. (01 m.) | (ii) Can be drawn in to wires/ ductility |
| (iii) Money is not spent for electricity. Using solar energy. (01 m.) | (iii) Making balloons. |
| (iv) Drying grains, drying clothes. any suitable answer (02 m.) | (iv) Ability of stretching when a force is applied/ elasticity. |
| <u><u>(16 m.)</u></u> | (v) Ability to hammer/ Malleability. |
| | (vi) Diamond (06 m.) |

Answer

- B. (i) Saw dust hearth (01 m.)
 (ii) Saw dust, Paddy chaff (02 m.)
 (iii) To boil water in retail shops. (01 m.)
 (iv) Inability to control fire /
 Inability to blow off the hearth. (01 m.)
(11 m.)

04. A. (i) A - Wind vane
 B - Motor
 C - LED bulb (03 m.)
 (ii) Wind energy. (01 m.)
 (iii) Inadequate amount of wind. (01 m.)
- B. (i) Colourless lime water turns
 milky. (01 m.)
 (ii) Exhaled air contains CO_2 gas. (02 m.)
 (iii) By combustion/ By respiration
 of animals. (01 m.)
 (iv) Cutting trees/ Adding garbage to the
 environment, any acceptable answer.

~~(02 m.)~~
(11 m.)

05. A. (i) (i), (ii), solid, liquid (iii), (iv), (v)
 rain (precipitation), surface water,
 under-ground water.
 (vi) according to salinity.
 (vii), (viii) fresh water, brackish water
 (1/2 = 08 m.)
- (ii) any two relevant instances. (02m.)
 (iii) any suitable method to decrease

the above situations.

(1 m.)

- B. (i)(i) Horse shoe magnet.
 (ii) Bar magnet.
 (iii) U magnet.
 (iv) Ring magnet.

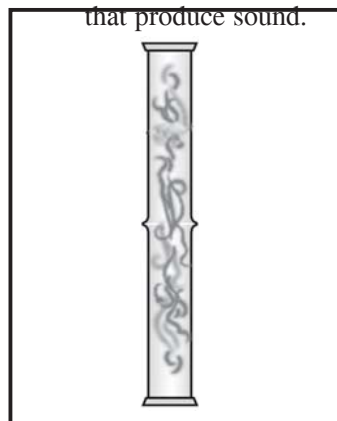
(04 m.)
(11 m.)

06. A. (i) Pieces of papers move. (01 m.)
 (ii) Due to vibrating rabana membrane.
 (01 m.)
 (iii) Ear (01 m.)
 (iv) Not entering external things to
 the ear. (01 m.)
 (v) (i) Objects that produce sound.
 (ii) Musical instruments, sounds of
 animals, various instruments

that produce sound.

(02 m.)

- B. (i)



- (ii) Gases have a definite volume.

(2 m.)
(11 m.)