

Science

Writing Time : 2 Hours
Total Marks : 100

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READ THE FOLLOWING DIRECTIONS CAREFULLY:

1. In this **booklet**, you will find 25 questions in Section A and 5 questions in Section B. You must answer **all** the questions. Each question in Section A is worth **2 marks**.
2. All answers for Section 'A' and 'B' **must** be written in the answer sheet provided by the school.
3. Do **not** start writing the answers to questions until you are given permission to do so.
4. You will have 2 hours in which to answer all the questions.
5. Once the examination begins, you will not be allowed to ask questions, speak with others or move around.
6. If you finish before the time is over, close the Answer Booklet, and sit quietly.

DO NOT forget to write your name, class/section and the name of your school on the answer sheet(s).

IF YOU HAVE ANY QUESTIONS, ASK THEM NOW!

TURN PAGE

(15 Minutes is to be allowed for reading as well as for teachers on duty to explain the instructions)

SECTION A
25 Questions – 50 Marks
Answer ALL questions

*Direction: Each question in this section is followed by four possible choices of answers. Choose the **MOST** correct answer and write it down in the answer sheets provided by the school.*

1. An example of a crystal is
 - A sugar.
 - B stone.
 - C soda.
 - D sand.

2. All of the following are sources of renewable energy *EXCEPT*
 - A electricity from solar panels.
 - B electricity from water.
 - C electricity from wind.
 - D electricity from oil

3. 'It is very cold. The light is sometimes very bright and it can be very windy'. The description given above is the habitat for which of the following animal?
 - A yak
 - B camel
 - C elephant
 - D earthworm

4. Regular exercise keeps us fit and helps our body to work well. It makes the different parts of our body
 - A strong and tall.
 - B strong and thin.
 - C active and stiff.
 - D strong and flexible.

5. To be healthy, we need to eat the right amount of food from each food group. An example of a balanced diet is
 - A rice, eggs, sag and meat.
 - B rice, meat, butter and maize.
 - C rice, tomato, sag and mango.
 - D rice, butter, maize and wheat.

6. 'A bridge is made using four towers to hold the ropes. The span is held together by the ropes hanging from the towers'. This is a description of a
 - A suspension bridge.
 - B cantilever bridge.
 - C span bridge.
 - D arch bridge.

7. Which of the following can be recycled?
- A banana skin
 - B potato peels
 - C leaves
 - D paper
8. We use copper wire at home for bulbs and switches because it
- A looks beautiful.
 - B is a conductor.
 - C is an insulator.
 - D is cheap.
9. The change of state from gas to liquid is called
- A condensation.
 - B evaporation.
 - C freezing.
 - D melting.
10. One of the ways in which both boys and girls will change as they grow is
- A hips get wider.
 - B the voice changes.
 - C the body grows bigger.
 - D breasts begin to get bigger.
11. A pH tells us whether a substance is
- A an alkali or a medicine.
 - B an alkaline or antacid.
 - C an alkali or an acid.
 - D an alkali or water.
12. The Fruit Products factory makes mango pickle. They use mangoes, oil, chillies, onions and spices to make the pickle. These raw materials are changed into
- A process.
 - B product.
 - C manufacture.
 - D new materials.
13. Plants make flowers and fruits for
- A photosynthesis.
 - B reproduction.
 - C germination.
 - D pollination.

14. We use bamboo bow instead of a wooden bow because bamboo bow can store
- A renewable energy.
 - B electrical energy.
 - C kinetic energy.
 - D stored energy.
15. You can see arches in bridges and buildings around the world because they
- A are cheap to make.
 - B are strong shapes.
 - C are easy to make.
 - D look beautiful.
16. Sunlight looks white but it is made up of different colours. These colours are called
- A ray.
 - B light.
 - C spectrum.
 - D solar light.
17. There are four children who have started to do the following. Which child is the youngest?
- A Chador - started to crawl.
 - B Sonam - started to smile.
 - C Dechen - started to walk.
 - D Karma - started to talk.
18. To make alcohol people use a method called distillation to
- A boil the liquid.
 - B get more alcohol.
 - C separate two liquids.
 - D to make the alcohol strong.
19. Pema made a circuit. The circuit was complete but the bulb did not light (glow). What do you think happened?
- A Two batteries are needed to light the bulb.
 - B One battery is needed to light the bulb.
 - C The bulb could be faulty.
 - D The wire is too thick.
20. The raw material to make cement is limestone. Cement is a
- A man-made material.
 - B recycled material.
 - C concrete material.
 - D natural material.

21. The seeds of which of the following plants when fully grown burst open and scatter
- A bean
 - B chillie
 - C brinjal
 - D tomato
22. In a torch we use batteries to make the torch light. This electricity is made by the
- A metal connections in the battery.
 - B chemicals in the battery.
 - C outer case of the battery.
 - D size of the battery.
23. Yeast is used to make drinks. It is added to grains and left for sometime. The yeast respire producing carbon dioxide and
- A oxygen.
 - B alcohol.
 - C water.
 - D heat.
24. Galay wanted to find the average weight of 12 children. The total weight of 12 children was 150 kgs. Therefore the average weight is
- A 12 kgs.
 - B 12.5 kgs.
 - C 13 kgs.
 - D 13.5 kgs.
25. We have a special joint in our hips. This type of joint is called the
- A ball and socket joint.
 - B flexible joint.
 - C sliding joint.
 - D hinge joint.

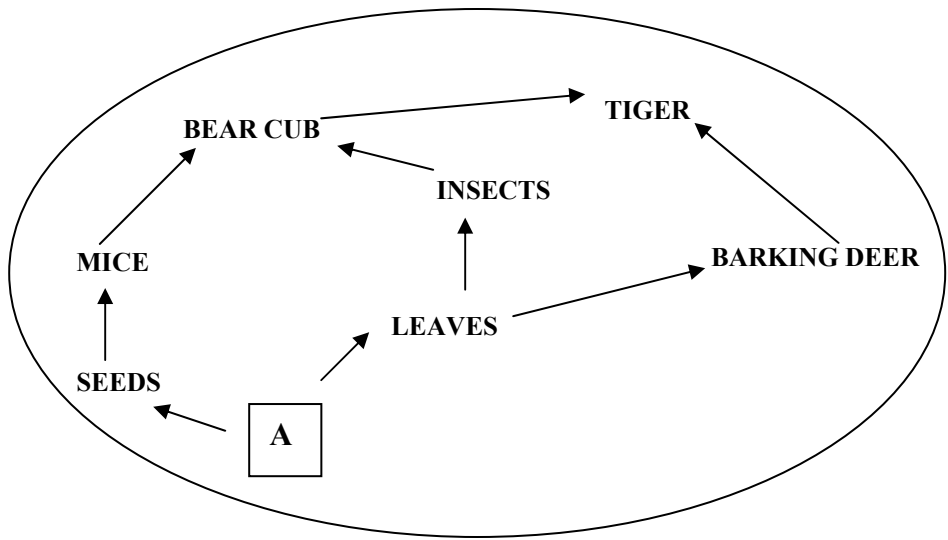
SECTION B
5 Questions – 50 Marks
Answer ALL questions

Direction: Answer the questions given below as directed. All answers must be written in the answer sheets provided by the school. The intended marks for each question is given in brackets [].

Question 26

(a) Why is a bucket made of plastic? Give *two* reasons. [2]

(b) Study the food chain given below and answer the questions that follow.



(i) What is at the top of the food chain? [1]

(ii) What is A? [1]

(c) (a) Fill in the blanks with appropriate words given in the box. [3]

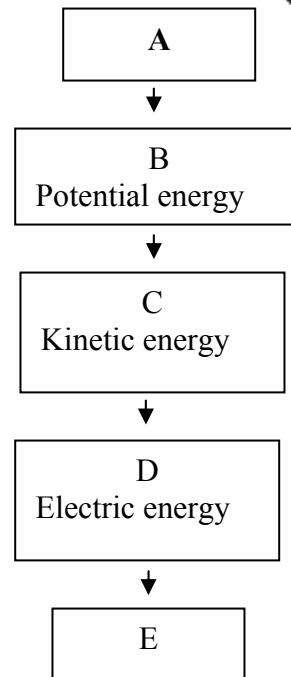
oil, muscles, fuels, stomach, womb, skeleton

(i) When fuels burn they react with of the air.

(ii) Our supports our body.

(iii) The baby grows inside a woman's

- (d) (i) Look at the picture given below. Copy and complete the energy chain. [2]



- (ii) Name any other *two* sources of energy from which we can produce electricity. [1]

Question 27

- (a) Look at the table given below and answer the questions that follow:

FOOD	ENERGY GIVING FOOD	BODY BUILDING FOOD	PROTECTION FOOD
Eggs	√√	√√	√√
Sag			√√
Meat	√	√√	√
Rice	√√		√
Dal	√√	√√	√√
Wheat	√√		√
Butter	√√	√	√
Milk	√√	√√	√√
Radish			√√
Apples			√√

√√ = means it contains a lot of this kind of food
 √ = means it contains a little of this kind of food

- (i) A mother gives her child sag, rice, wheat and radish. Why is this not a balanced diet? [1]
- (ii) Make a balanced diet for yourself using the types of food given in the table above. [1]

BREAKFAST	LUNCH	DINNER

- (iii) Why is breast milk the best food for a new born baby? [1]

- (b) (i) Match the following. Rewrite the correct matching pairs. [2]

COLUMN A	COLUMN B
i) Contraception	a) reproduction
ii) Protection food	b) condom
iii) Ovaries	c) tomatoes
iv) Pollination	d) babies
	e) eggs
	f) insects
	g) bananas

- (ii) Why is family planning good? Give *two* reasons. [2]
- (iii) Why do people who go trekking carry a compass? [1]

Question 28

- (a) Study the diagram given below and answer the questions that follow.

- (i) Name the parts numbered 1, 2, 3 and 4? [2]
- (ii) How does the part numbered 1 and 2 help the chick to grow? [2]

- (b) Copy the diagram of a flower given below and label the following parts: [4]
- (i) stigma
 - (ii) pollen
 - (iii) stamen
 - (iv) sepal

- (c) (i) Draw a seed designed like a parachute. [1]
 (ii) How are such types of seeds scattered? [1]

Question 29

- (a) Pema did an experiment to find out how to make things dry quickly. She hung a cloth in a sunny place and another cloth in a sunny and windy place.
- (i) Name *one* thing which should be kept the same in this experiment. [2]
 - (ii) Which cloth dried faster? [1]
- (b) (i) Name *three* ways how plants attract insects for pollination. [3]
 (ii) What are electrical effects? [1]
- (c) (i) Write the difference between natural materials and man-made materials. [2]
 (ii) Copy and complete the following: [1]



Question 30

- (a) Correct the sentences by changing the word given in brackets. Rewrite the correct sentences. [4]
- (i) When the oxygen we breathe and the food we eat react together, it is called a

(physical) change.

- (ii) Substances which burn in air to produce heat are called (producers).
 - (iii) The joining of the male and the female egg is called (reproduction).
 - (iv) Sometimes people kill hornbills to get oil and (horns).
- (b) Karma did an experiment to calculate the distance of a storm. She noted the time between thunder and lightning as shown in the table given below. However she forgot to note some of the readings. Copy and calculate the missing readings. [3]

Seconds between thunder and lightning	Distance of the storm
27 seconds	?
?	14 km
57 seconds	?
72 seconds	24 km

- (c) Label the diagram of the bean seed given below. [3]