

**Science**

**Writing Time : 2 Hours**

**Total Marks : 100**

**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**

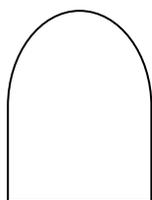
**(15 Minutes is to be allowed for reading as well as for teachers on duty to explain the instructions)**

**SECTION A**  
**25 Questions – 50 Marks**  
**Answer ALL questions**

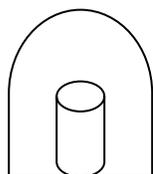
*Direction: Each question in this section is followed by four possible choices of answers. Choose the correct answer and write it down in the answer sheets provided by the school.*

1. A very small new plant found inside a seed is called
  - A a food store.
  - B a seed coat.
  - C an embryo.
  - D an ovum.
  
2. Without forest the amount of
  - A carbon dioxide will decrease.
  - B carbon dioxide will increase.
  - C oxygen will decrease.
  - D oxygen will increase.
  
3. Family planning is good because
  - A the population will increase.
  - B we can have many children.
  - C the parents will have to work hard.
  - D the mother will have time to recover her strength.

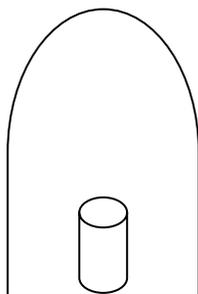
4. Study the diagrams given below and answer the question which follows.



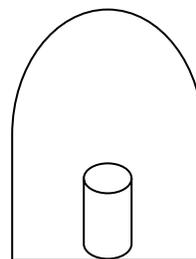
**Jar 1**



**Jar 2**



**Jar 3**



**Jar 4**

The candle will burn longest in

- A jar 1.
- B jar 2.
- C jar 3.
- D jar 4.

5. The air pocket present in an egg helps the developing chick to  
A breathe.  
B stay moist.  
C make it light.  
D absorb shock.
6. The seeds inside a bean are arranged  
A crosswise.  
B lengthwise.  
C clockwise.  
D columnwise.
7. Caterpillars are bad for farmers because they  
A destroy crops.  
B help things decay.  
C grow very quickly.  
D make the soil less fertile.
8. Which of the following develops into a plant?  
A flower  
B fruit  
C seed  
D ovary
9. The seeds must be scattered far away from the parent plant because  
A they will not have enough food.  
B this will prevent over crowding.  
C there will not be enough water.  
D they will not grow properly.
10. The parts of our body that **NEVER** stop growing are  
A nail and hair.  
B eyes and nose.  
C head and legs.  
D fingers and toes.
11. A pregnant woman needs to eat extra amount of the  
A energy giving food.  
B body building food.  
C right kind of food.  
D protection food.

12. Yaks are found in  
A deserts.  
B sea coast.  
C low lands.  
D high lands.
13. Sugar dissolves faster in  
A icy water.  
B cold water.  
C dirty water.  
D warm water.
14. Study the diagram given below and answer the question that follows.

The purpose of adding oil in the jar is to

- A help the plant grow faster.  
B increase the rate of evaporation.  
C prevent water from evaporation.  
D prevent dust particles from getting into the water.
15. The change of state from gas to liquid is called  
A melting.  
B freezing.  
C evaporation.  
D condensation.
16. We dry food to  
A make them tasty.  
B sell them in the market.  
C make them easy for cooking.  
D to keep them for a long time.

17. Which of the following is an electrical effect which takes place in a television?  
**A** colour and sound.  
**B** sound and light.  
**C** sound and heat.  
**D** light and heat.
18. Batteries are of different sizes because they  
**A** are easy to carry.  
**B** are used for different purposes.  
**C** they are used in different shaped things.  
**D** roduce different amounts of electrical energy.
19. Study the diagrams given below and answer the question that follows.

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>air</b>	<b>paper</b>	<b>wet cloth</b>	<b>dry cloth</b>

The lowest temperature will be in the thermometer in diagram

- A** 1.  
**B** 2.  
**C** 3.  
**D** 4.
20. Adding a battery to a circuit will  
**A** not change the brightness of the bulb.  
**B** decrease the brightness of the bulb.  
**C** increase the brightness of the bulb.  
**D** not light the bulb.
21. There is a sound of thunder after 42 seconds of lightning, how far away is the storm?  
 (assuming 1 km = 3 seconds)  
**A** 126 km away.  
**B** 39 km away.  
**C** 16 km away.  
**D** 14 km away.

22. Study the diagrams given below and answer the question that follows.

1	2	3	4
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Which of the shapes can support the greatest load given in the diagrams?

- A Diagram 1
  - B Diagram 2
  - C Diagram 3
  - D Diagram 4
23. Which direction does the compass needle always point to?
- A east
  - B west
  - C north
  - D south
24. Static electricity
- A flows through things.
  - B stays in the same place.
  - C comes from solar energy.
  - D comes from chemical energy.
25. The best food for babies is
- A goat's milk.
  - B bottled milk.
  - C breast milk.
  - D cow's milk.

**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 spaces provided by the school. The intended marks for each question is given in brackets [ ].*

**Question 26**

(a) What is a green house? [1]

(b) From the list given below, select and write the items that can be recycled. [2]  
cabbage, paper, plastic bottles, banana skin, old television set, hospital waste

(c) Match the following. Rewrite the correct matching pairs. [3]

Column A	Column B
(i) yolk	a) to protect the egg
(ii) shell	b) to provide nutrients
(iii) membrane	c) to grow into a chick
	d) to keep the egg moist

(d) Study the Road to Health card given on page 8 and answer the following questions. [1]

(i) What does the line going up show? [1]

(ii) In which year did the child gain the most weight? [1]

(iii) How much weight has the child gained from birth to the end of the fifth year? [2]



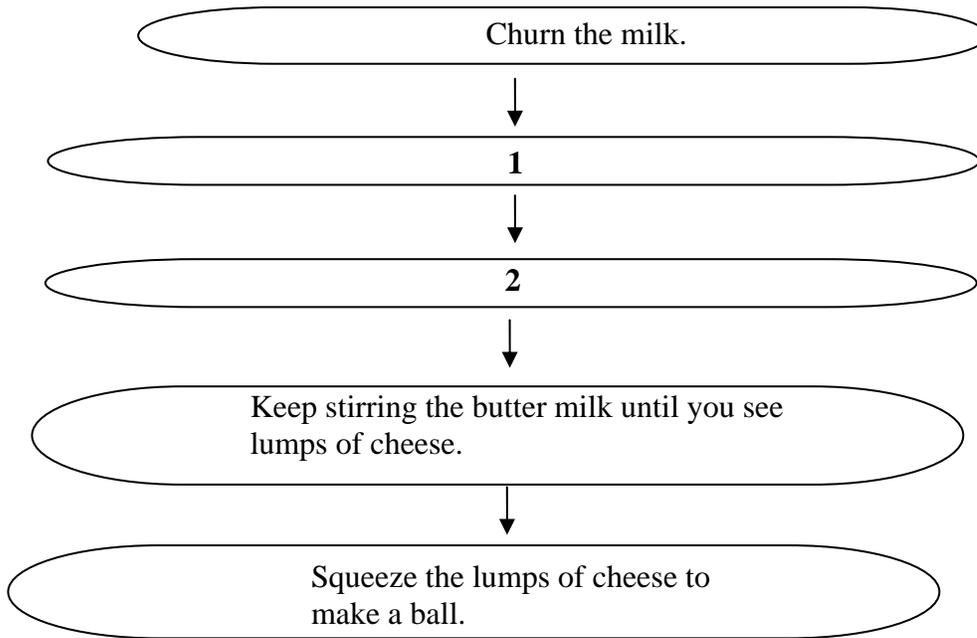
**Question 27**

- (a) Draw a neat diagram of a flower and label the following parts:
- (i) petal
  - (ii) sepal
  - (iii) stamen
  - (iv) ovary
- (b) Some seeds have parachute or wing like structures. Write **TWO** purposes of such structures. [2]
- (c) It took Karma 5 minutes to drop 10 seeds from a height of 10 meters one after the other to touch the ground. Calculate the average time taken for a seed to fall to the ground. [2]
- (d) (i) What is fertilization? [1]  
 (ii) What happens to the fertilized egg? [1]

**Question 28**

- (a) Fill in the blanks with appropriate words. [3]
- (i) ..... is a place where plants or animals live.
  - (ii) An object that does not allow the bulb to light is called .....
  - (iii) The ..... electricity pulls the hair towards the comb.
- (b) (i) Write the following items under their proper headings. [2]  
 wood, table, rubber boot, soil
- | Natural materials | Man-made materials |
|-------------------|--------------------|
|                   |                    |
- (ii) Why do you think rubbish is dangerous to people? Give **TWO** reasons. [2]

- (c) The flow chart given below shows the process of making 'datsi'. Fill in the missing steps 1 and 2.



- (d) What is distillation? [1]

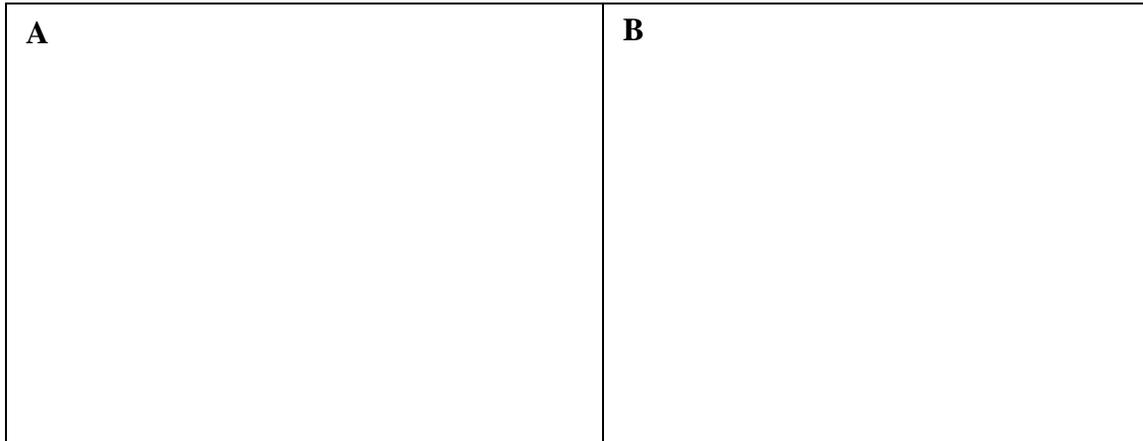
**Question 29**

- (a) (i) What happens to lime water when we breathe through a straw into it? [1]  
(ii) Compare the life cycle of a bird with that of a butterfly. Give **ONE** similarity and **TWO** differences. [3]
- (b) Look at the diagram given below and answer the questions that follow. [2]

- (i) What is happening in the above diagram?  
(ii) Name the gas that is produced?

(c) Why is soda good for cleaning the teeth?

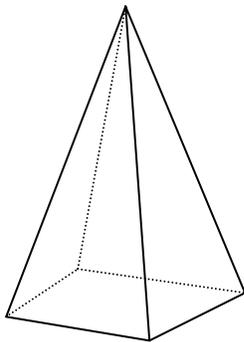
(d) Study the diagram of a circuit given below and answer the questions that follow.



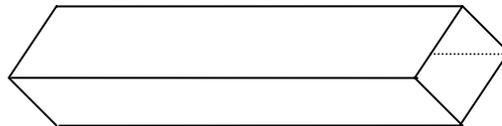
- (i) Which of the above circuits is better for household wiring? [1]
- (ii) Give **TWO** reasons to support your answer. [2]

**Question 30**

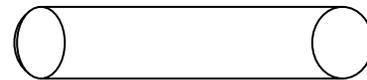
(a) Look at the shapes given below and answer the questions that follow.



**Shape 1**



**Shape 2**



**Shape 3**

- (i) Which of the shapes given above do you think is stronger for construction? [1]
  - (ii) Write **ONE** reason. [1]
- (b) Tenzin dropped a handful of pebbles in a bottle of water. She found that the level of water rose by a few centimetres. Write **TWO** reasons why the water level increased? [2]

- (c) What is the meaning of 'non-renewable resource'? Give TWO examples.
- (d) The diagram given below shows an energy chain of a ball going over a net.  
Fill in the missing parts numbered 1, 2 and 3.

[3]

