



**Indian School Al Wadi Al Kabir**  
**Mid Term Examination**  
**SCIENCE – SET I**

Class : VI  
Date : 29.09.2022

Time: 2 ½ Hours  
Max. Marks : 80

**General Instructions:**

- i. All questions are compulsory. Marks are indicated against each Section.*
- ii. The question paper comprises 08 pages and 32 questions in 5 sections A, B, C, D and E*
- iii. Q 1 to Q 16 in **section A MCQ** carries 1 mark each. Write the correct answer along with the option only in the answer script.*
- iv. Q 17 to Q 19 in **section B CASE STUDY BASED** carry the THIRTEEN marks.*
- v. Q 20 in **section C SOURCE BASED** carry THREE marks.*
- vi. Q 21 TO Q 26 in **section D** are Short Answer Type Questions and carry THREE marks each.*
- vii. Q 27 to Q 32 in **section E** are Long Answer Type Questions and carry FIVE marks each.*
- viii. Write the same question number as given in the question paper.*
- ix. Ink killer or whitener should not be used in the answer script.*
- x. Diagrams should be drawn using a pencil.*

**SECTION A (16X1=16)**

1. Plants perform photosynthesis in the presence of sunlight and chlorophyll. What other components are needed by the plants to perform photosynthesis?
  - (a) Oxygen and water.
  - (b) Carbon dioxide and water.
  - (c) Carbon dioxide and oxygen.
  - (d) Oxygen and Carbon monoxide.
  
2. Classify neem in one of the categories of plants.
  - (a) Herb
  - (b) Shrub
  - (c) Tree
  - (d) Creeper
  
3. Which of the following included in our diet is neither a plant nor an animal product?
  - (a) Oil
  - (b) Milk
  - (c) Salt
  - (d) Rice

4. The process of separating fibres of cotton from its seeds is called:
- (a) Knitting
  - (b) Ginning
  - (c) Spinning
  - (d) Weaving
5. Which of the following is an animal fibre?
- (a) Silk
  - (b) Cotton
  - (c) Jute
  - (d) Nylon
6. Choose the correct sequence for preparing clothes among the following.
- (a) Fibre → fabric → yarn
  - (b) Fibre → yarn → fabric
  - (c) Fabric → yarn → fibre
  - (d) Yarn → fibre → fabric
7. An example of immiscible mixture.
- (a) Oil and water
  - (b) Sugar and water
  - (c) Sand and water
  - (d) Milk and water
8. When no more salt dissolves in water at a particular temperature then the solution at that temperature is called:
- (a) Unsaturated
  - (b) Saturated
  - (c) Filtrate
  - (d) Supernatant
9. Roshan wants to build his muscles and thus joined a gymnasium for it. What changes should Roshan make in his diet to build strong muscles?
- (a) Eat more carbohydrate rich food.
  - (b) Eat more vitamin rich food.
  - (c) Eat more protein rich food.
  - (d) Eat more fat rich food.
10. Which of the following is **NOT** a function of water in our body?
- (a) To transport digested food
  - (b) To get rid of waste
  - (c) To release energy
  - (d) To regulate body temperature

11. Name the process in which water is converted into its vapour on heating.

- (a) Condensation.
- (b) Evaporation .
- (c) Sedimentation.
- (d) Decantation.

12. A bag has some lemons and oranges. A student separates them by the method of handpicking. Why do you think the student uses this method ?

- (a) Because both fruits have different size.
- (b) Because both fruits have different colour.
- (c) Because both fruits have same shape and colour.
- (d) Both (a) and (b)

13. Honey is a unique food because:

- (a) It needs to be stored in a cold place.
- (b) It needs to be stored in a warm place.
- (c) It needs to be stored in a dry place.
- (d) It does not get spoiled at room temperature.

14. While measuring the length of a wooden box, the reading at one end is 15 cm and the other end is 47 cm. What is the length of the wooden box?

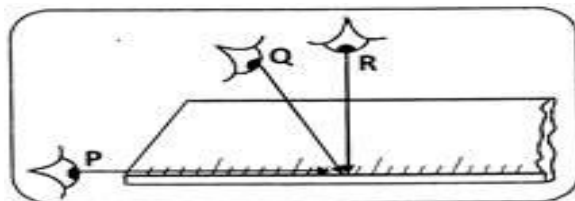
- (a) 47cm
- (b) 15cm
- (c) 32 cm
- (d) 62 cm

15. **X** is the comparison of an unknown quantity with a known quantity of its own kind. Identify **X**.

- (a) Pendulum
- (b) Measurement
- (c) Motion
- (d) Device

16. The below given figure shows the positions of the eye while measuring the length on the ruler. Identify the **correct** way of reading the scale .

- (a) P
- (b) Q
- (c) R
- (d) P and Q



## SECTION B (13 mark)

### 17 Case study A

**Paheli and Boojho wanted to test the nutrient present in potato as well as they need to prepare a dish out of potato too . They peeled some potatoes and cut them into small pieces. First, they took one piece of potato for testing the nutrient content and remaining pieces were washed and boiled in water. They threw away the excess water and fried them in oil adding salt and spices. Although the potato dish tasted very good, its nutrient value was less.**

(i) Name the major nutrients present in our food.

(ii) The nutrient which mainly give energy to our body:

- (a) Vitamins
- (b) Proteins
- (c) Roughage
- (d)Carbohydrate

(iii) Food should not be overcooked. Give reason.

(iv) **Explain** how will you test the presence of starch in a food . (Include procedure and Observation)

### 18 Case study B

**Usha wants to prove that air is present in water and also in soil , so she kept some water in a beaker for heating. She observed that tiny bubbles appeared before the water started to boil. She boiled the water for about 5 minutes and filled it in a bottle up to the brim and kept the bottle air tight till it cooled down to room temperature.**

(i) Which of the following statement is **true** regarding air?

- (a) Air does not support burning.
- (b) Air cannot occupy space.
- (c) Air is opaque in nature.
- (d) The composition of air varies from place to place.

(ii) Why did the tiny bubbles appear when Usha kept water in a beaker for heating?

(iii) An empty glass in fact is not empty. Give reason.

(iv) Write an activity to show that soil contains air.

### 19 Case study C

**A student took a healthy, well-watered plant and enclosed a leafy branch of it in a polythene bag. After a few hours, the student observed some water drops on the inner side of the polythene bag.**

(i) In which of the following processes do plants lose water in the form of water vapour through the leaves?

- (a) Transpiration
- (b) Reproduction
- (c) Photosynthesis
- (d) Transportation

(ii) Though plants lose water during this process yet, it is useful both for the plant and the environment. Justify.

### SECTION C (1X3=3)

**20. Plants are the sources of food ingredients like grains, cereals, vegetables and fruits. Animals provide us with milk, meat products and eggs. Cows, goats and buffaloes are some common animals which give us milk. Milk and milk products like butter, cream, cheese and curd are used all over the world. We eat many leafy vegetables. We eat fruits of some plants. Sometimes roots, sometimes stems and even flowers. Some plants have two or more edible (eatable) parts. Seeds of mustard plants give us oil and the leaves are used as a vegetable.**

(i) Plants are the source of which of the following food ingredients?

- (a) Cereals
- (b) Fruits
- (c) Milk
- (d) Both (a) & (b)

(ii) Name the edible part of cauliflower.

- (a) Stem
- (b) Root
- (c) Flower
- (d) Bud

(iii) What does seeds of mustard plant gives?

- (a) Fruit
- (b) Stem
- (c) Oil
- (d) Milk

### SECTION D (6X3=18)

21. (a) **Explain** how jute fibre is obtained from the jute plant.

(b) Name **two** modern fabrics formed by an unstitched piece of fabric.

22. (a) Why do we need to separate different components of a mixture? Give **two reasons**.

(b) **Identify** the method of separation shown in the picture given below. Mention **one** situation where this method of separation is used .



23. (a) How do aquatic organisms take oxygen for respiration?

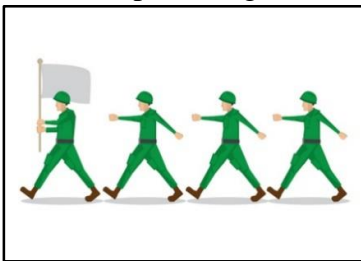
(b) The composition of air is given below. **Draw** a pie-chart representing the various percentage of these gases.

| GASES       | PERCENTAGE |
|-------------|------------|
| NITROGEN    | 78 %       |
| OXYGEN      | 21 %       |
| OTHER GASES | 1 %        |

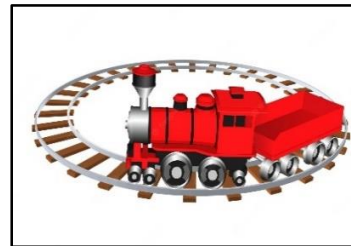
24.(a) Draw and label parts of a stamen.

(b) Write the functions of sepals and petals.

25.(a) Observe the pictures given below and write down the type of motion exhibited by each.



**A**-March-past of soldiers in a parade



**B** -Toy train moving in circular track

(b) Convert the following :

(i) 43 km = \_\_\_\_\_m

(ii) 7875 cm = \_\_\_\_\_ m

26.(a) What do you mean by ingredients?

(b) Differentiate between carnivores and omnivores. Give **one** example of each.

**SECTION E (6X5=30)**

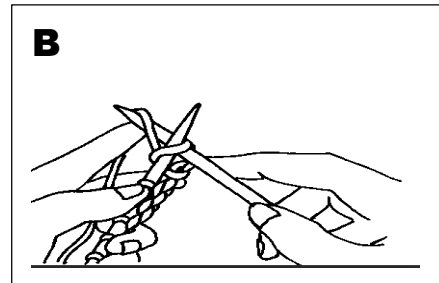
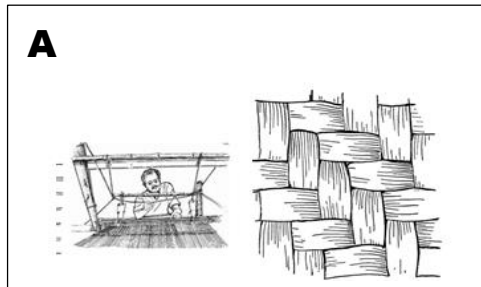
27.(a) What is a balanced diet?

(b) What is roughage? Why is it necessary to include roughage containing food in our diet?

(c) Complete the given table in your answer script and **Identify P,Q,R and S**

| VITAMIN/MINERAL | DEFICIENCY DISEASE/DISORDER | SYMPTOMS                                 |
|-----------------|-----------------------------|--|
| <b>P</b>        | Loss of vision              | Poor vision, loss of vision in darkness. |
| Vitamin C       | <b>Q</b>                    | Bleeding gums                            |
| Vitamin D       | Rickets                     | <b>R</b>                                 |
| <b>S</b>        | Goiter                      | Glands in the neck appear swollen        |

28.(a) **Identify** the process **A** and **B** shown in the figure given below and also **explain** the process labelled as **A**.



(b) Mention the **type of soil** and **climate** which is suitable for growing cotton plant. Mention **two** uses of cotton fibre.

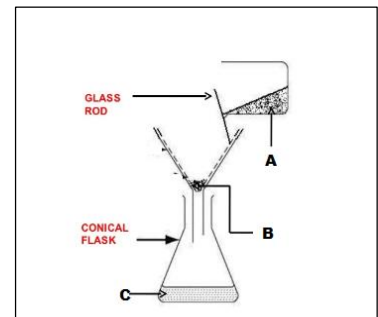
(c) What is meant by spinning?

29.(a) Observe the method of separation shown alongside and answer the questions.

(i) **Identify** the process and label the parts marked as A,B,C

(ii) How is this method better than sedimentation and decantation?

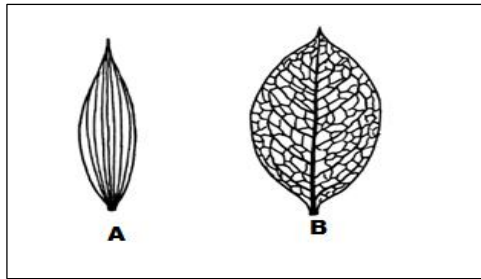
(b) What is threshing?



- 30(a) Why are fine hair and mucus present in our nostrils? Why should we not breathe in through our mouth?
- (b) Why does all the oxygen in the atmosphere not get used up even though a large number of organisms are consuming it?
- (c) What is the importance of water vapour in air?

31.(a) Draw and label the parts of a leaf.

- (b) **Identify** the type of venation in **A** and **B** and give **one** difference between the two types of venation.



- (c) If a plant has fibrous root, what type of venation are its leaves likely to have?

32.(a) Why can't we use a finger or a fist as standard unit of measurement of length?

- (b) Define rest and motion.

- (c) **Explain** the thread method to measure a curved line.

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