

SA-I (CLASS-VI)

9/2014

SUBJECT : INTEGRATED SCIENCE

MM : 80

Time : 2½ hours

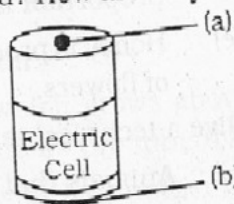
General Instructions :

- (i) All questions are compulsory.
- (ii) Mention correct question number and part for each answer.
- (iii) Attempt the questions in the same sequence as given in question paper.

PART-A

Q1. Answer the following in one sentence each : (1x15=15)

- (a) Gautam observed the motion of a drill machine used by a carpenter for drilling a hole into a wooden almirah. Which two motions are shown by the drill machine?
- (b) Name two common devices used for measuring length.
- (c) Though fats give us more energy than carbohydrates yet they should be consumed in less quantity. Give reason.
- (d) X is a vitamin which gets easily destroyed by heat during cooking. Identify X.
- (e) Name the edible part of the following :
 - (i) Cabbage
 - (ii) Radish
- (f) Some carnivores and omnivores eat dead bodies of animals. What are they called? How are they useful for the environment?
- (g) Given alongwith is a diagram of an electric cell. Label the parts a and b.
- (h) A is a thin wire that gives off light in a bulb. Identify A.
- (i) An overweight person wants to lose weight. Which nutrient should he avoid eating?



- (j) To measure the length of a cloth, a child used his outstretched arm and found that the length of the cloth was equal to 4 times the length between the outstretched arm and the chin. What is the length of the cloth?
- (k) The height of a person is 1.57m. Express it in cm.
- (l) Pick the odd one out from the following group giving reason for your answer.
tiger, vulture, shark, elephant
- (m) I am a fibre obtained from the outer covering of coconut and used to make doormats. Who am I?
- (n) Cotton fibres are used to make summer dresses as well as quilts used in winter season. Give reason.
- (o) While conducting a food test, Riya added 2 drops of copper sulphate and 10 drops of caustic soda to the food sample. Which nutrient is being tested by Riya?

Q2. Fill in the blanks : (1x5=5)

- (a) The arrangement of veins on the lamina or leaf blade is called _____.
- (b) _____ are tall plants having hard, thick and woody stem.
- (c) The materials needed to prepare a food item are called _____.
- (d) A diet which contains all the nutrients in right proportion is called a _____.
- (e) Honey is produced by honey bee from the _____ of flowers.

Q3. Give a technical term for the following : (1x5=5)

- (a) Animals that eat both plants and animals.
- (b) Materials which allow electric current to pass through them.
- (c) Motion that repeats itself after a fixed interval of time.

- (d) Colourful attractive part of a plant.
- (e) It involves judicious use of water and replenishing the sources of water without disturbing the water cycle.

PART-B

Q4. Answer briefly : (2x10=20)

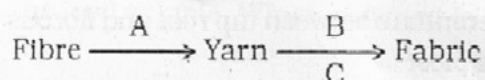
- (a) What type of motion is shown by the following :
 - (i) Motion of a coin on a carrom table.
 - (ii) Water dripping from a tap.
 - (iii) Motion of a cursor on the monitor of a computer.
 - (iv) The hour hand of a clock
- (b) State two functions of food in our body.
- (c) Differentiate between tap root and fibrous root giving examples.
- (d) Classify the following fibres as natural or synthetic: nylon, wool, silk, polyester
- (e) Define deficiency diseases. What are the symptoms shown by a child whose diet is deficient in both carbohydrates and proteins for a long period of time?
- (f) With reference to cotton and jute answer the following questions :
 - (i) From which part of the plant are cotton and jute obtained?
 - (ii) Define ginning of cotton.
- (g) 'A' is a part of the plant which grows above the ground. Identify 'A' and state its two functions.
- (h) Reeta went to the market with her brother to buy cloth for her dress. She noticed that the shopkeeper measured the cloth using handspan. She advised him to use a metre rod for measurement in place of handspan
 - (i) Which value is shown by Reeta?

(ii) Why is handspan not considered a reliable unit of measurement as compared to metre rod?

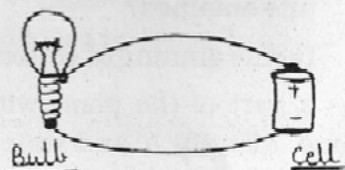
- (i) How are floods caused? Enlist the harmful effects of floods.
- (j) Conservation of natural resources like wind, water, sunlight is the need of the hour. Explain the method by which we can conserve rain water.

Q5. Answer the following : (3x5=15)

- (a) Food provides vital nutrients for our body. Therefore it is important for us to retain the nutritional value of food. How can we retain the nutritional value of food?
- (b) Look at the flow chart given below :



- (i) Identify the processes A, B and C.
- (ii) Differentiate between B and C.
- (iii) Name the device used for process A.
- (c) The process of condensation plays an important role in bringing water back to the surface of the earth. Explain.
- (d) Look at the figure given below and answer the questions that follow :



- (i) What does the above figure represent? Define it.
- (ii) Indicate the direction of flow of current in the above diagram.
- (iii) Name the device used to break the flow of current in the above figure.

(e) Complete the following table :

	Vitamin/Mineral	Function	Deficiency disease
(i)	_____	_____	_____
(ii)	Vitamin A	_____	_____
(iii)	_____	required for the functioning of thyroid gland	_____

Q6. Draw neat and well-labelled diagrams of : (4+3+3)

- Inside View of a Torch
- Water Cycle
- Parts of a flower

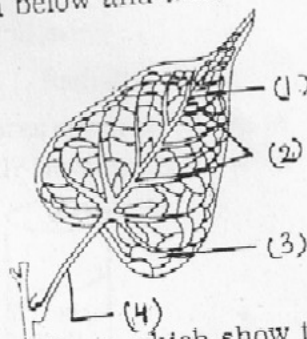
Q7. Answer in detail :

(a) Supriya wanted to measure the length of her Hindi copy. When she took a scale, she found that the end of the scale was worn out till 2cm mark due to overuse.

- Where should she start measuring to know the length of her Hindi copy?
- If she starts measurement from 3cm and the other end of the copy is 14.8cm, what will be the correct length of the copy?
- What precautions should she keep in her mind while measuring the length using a metre scale?

(b) Look at the diagram given below and answer the questions that follow :

- Label the parts 1, 2, 3, 4.
- Which type of root system is shown by the plant having the given leaf.



- Give example of two plants which show the above type of venation.
- Write any two functions of leaf