

Date:

Class: VI

Science (Set – B)

Time: 3 hrs

M. M: 90

General Instructions:

1. There are two sections in this paper. Section A contains Q. 1-24 & section B contains Q. 25-36.
2. Read the questions carefully.
3. All the questions are compulsory.

Section - A

- | | | |
|----|--|-----|
| 1 | Which type of soil is most suitable for growing:
a) Jute fibre
b) Cotton fibre | 1 |
| 2 | Draw a labelled diagram to show regular reflection of light by a plane mirror. | 1 |
| 3 | What changes occur in muscles of the arm when it is bent? | 1 |
| 4 | Give a suitable method to separate the components of a mixture and state the principle behind the method used:
a) Iron fillings from sulphur.
b) Small pieces of stones from pulses. | 2 |
| 5 | What is a balanced diet? Write two factors on which balanced diet of a person depends upon. | 2 |
| 6 | What do you mean by multiple motion? Explain it with the help of an example. | 2 |
| 7 | “Water plays a vital role in our body”. Justify this statement by giving any three functions of water in our body. | 3 |
| 8 | Explain three adaptations found in birds that help it to fly easily in air. | 3 |
| 9 | a) Define a skeleton? Write its two functions.
b) Differentiate between tendons and ligament. | 2+1 |
| 10 | Give reasons for the following:
a) A snail secretes mucous while moving.
b) An earthworm is called a farmer’s friend.
c) Long bones of the human skeleton have bone marrow. | 3 |
| 11 | Mayank’s father never bothered to check the brand/contents of the salt he had purchased from the market. Mayank noticed that his sister had developed a swollen neck. He immediately took her to the doctor and doctor advised her to eat iodised salt and explained the importance of iodised salt in our diet. While returning home he purchased iodised salt for the whole family.
a) List two values possessed by Mayank.
b) Name the disease from which his sister suffered?
c) Why did the doctor advise her to eat iodised salt? | 3 |
| 12 | Draw a well labeled diagram showing the image formation by a pin hole camera and state two characteristics of the image formed by it. | 3 |
| 13 | Give the scientific terms associated with the following:
a) No change in the position of an object with respect to time or surroundings.
b) Type of motion along a straight line.
c) Motion in which the body moves about it’s own axis.
d) To and fro motion of a body.
e) Motion of body along a circular path
f) Repetitive movement which takes place at equal intervals of time. | 3 |

14. A man is sitting on a chair in a dark room near one of the walls. A big mirror is hung on the wall facing the man. When a torch light is put on the man from a distance, then we can see “X” of the man on the wall behind him. At the same time “Y” of the man can be observed in the mirror of the wall.

3

- Identify “X” and “Y”
- State any two difference between “X” and “Y”

15. a) While measuring the length of a steel clip on a scale, the reading at one end is 2 cm and at the other end is 6.3 cm. What is the length of the paper clip?

3

- The length of a book rack is 3.25 m. Express this length in:
 - cm
 - mm.

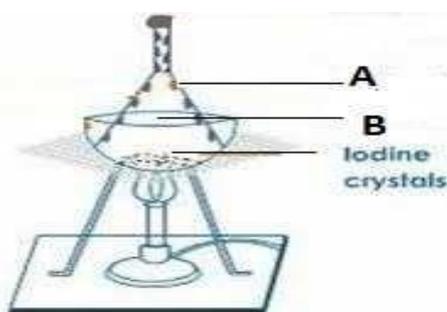
16. The material “A” is obtained from an animal’s skin is converted into “B” by a process “C”. “B” is then made into a sweater by the technique “D”. What are “A”, “B”, “C” and “D”.

3

Define the processes “C” and “D”.

17. Observe carefully the diagram given below and answer the questions that follow:

3



- Define the process shown above in the diagram.
- Label the substances A and B.
- Write any two substances other than iodine that could be separated by this process.

18. Give reasons for the following:

3

- Classification of different materials is necessary.
- We cannot drink water in a cloth tumbler.
- Water is known as a universal solvent.

19. a) Ram bought a nylon shirt and a terycotton suit and kept them in a jute bag. Classify the given fibres into three different categories and define each category.

5

- What is retting? Why is it done?

20. a) Explain any three ways of disposal of garbage.

5

- What is non biodegradable waste? Give an example and write the colour of the dustbin meant for throwing non biodegradable waste.

21. a) Explain in detail how a plane mirror is made?

5

- Akshit is standing in front of a big plane mirror. The distance between the mirror and his image is 7m. If he moves 3m towards the plane mirror, what would be the distance between Akshit and his image?

22. a) What is measurement? You are given a table to measure its length. Which one will you use, a measuring tape or hand span and why?

5

- Radha wants to measure the length of a table using scale. But she does not know what all precautions should be taken while using the scale. Explain any three precautions.

23. a) Explain an activity to test the presence of proteins in egg white.

3+2

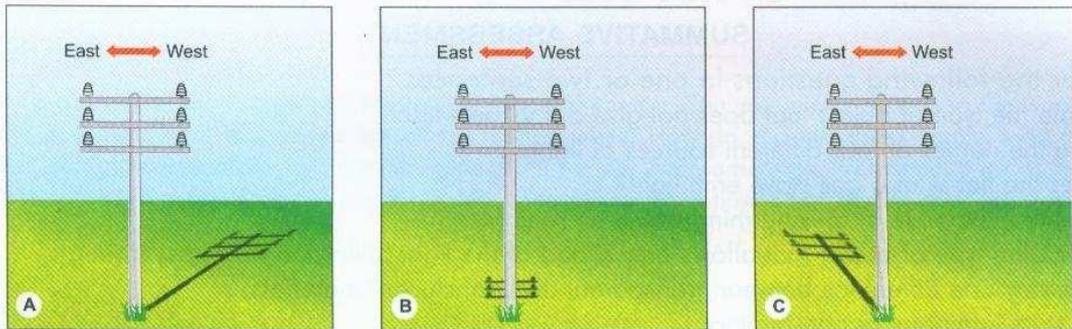
- State two practices which leads to loss of nutrients while cooking.

24. What are joints? Describe four types of movable joints in human body.

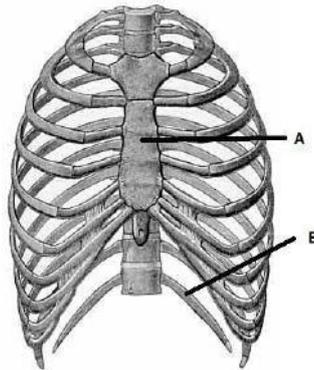
5

Section - B

- 25 Name the chemical added to the food stuff in order to test presence of starch. Also write a foodstuff which can give positive test for starch. 1
- 26 How many bones are present in human skull? Name a vital organ which is protected by skull. 1
- 27 A person could not see properly in dimlight. Name the deficiency disease he is suffering from? What is the cause of this disease? 1
- 28 In order to check the density of the substance with respect to water, Ram puts plastic and a metal spoon into the tumbler of water. Which of the above given two things will float on water and why? 1
- 29 If you and your friend are given the choice of eating food either on a plastic plate or a banana leaf, which one would you prefer and why? 1
- 30 Shyam added 6 spoons of sugar and got a saturated solution. What will happen to the solubility if he cools the solution? 1
- 31 The diagram below shows the shadow cast by a telegraph pole at different times of the day. 1



- a) Which picture shows the middle of day?
b) Which picture shows early morning?
- 32 Seema while cleaning her house found a bent iron pipe. She tried to observe the flame of a candle using that bent iron pipe from one end with candle placed on the other. Will she be able to see the candle flame? Give reason for your answer. 1
- 33 Your friends are participating in a race and you have to measure the time taken by them to complete the race. What kind of watch would you use to measure time in their sport event? 1
- 34 Given below is the diagram of ribcage. Study the diagram and answer the following questions: 2



- a) Identify the bone "A" & "B".
b) Name the two organs which are protected by ribcage.
- 35 One day Akshi dreamt that her cotton shirt was talking to her. It was telling her its life story from being on the cotton plant to becoming a shirt. It took four steps in her story for the process. List these steps. 2
- 36 What term is given to an object: 2
- a) through which we can see clearly? Give one example.
b) through which we cannot see at all? Give one example.



Edufever™