



ITL Public School

Summative Assessment 1(2014-15)

Date: 22.09.2014

Class: VI

Science (Set – A)

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

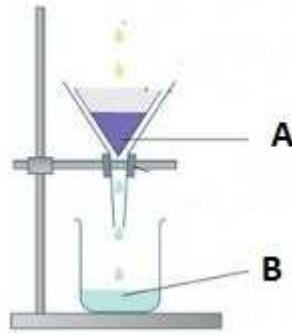
Section - A

- 1 List two factors on which balanced diet of a person depends upon. 1
- 2 Draw a labelled diagram to show the reflection of light by a plane mirror. 1
- 3 List the part of the plant from which the following fibres are obtained: 1
 - a) Cotton fibre
 - b) Jute fibre
- 4 What happens to the shadow formed on a screen when: 2
 - (i) the distance between the source of light and the object increases and
 - (ii) the distance between the object and the screen increases.
- 5 Name the minerals required by our body for: 2
 - a) Formation of thyroxine hormone.
 - b) Transmission of nerve impulse.
 - c) Formation of strong bones and teeth.
 - d) Formation of haemoglobin.
- 6 Give a suitable method to separate the components of the following mixture and state the principle behind the method used: 2
 - a) Husk from wheat grains.
 - b) Pebbles and stones from sand.
- 7 Write two characteristics of the image formed in a pin hole camera along with the labeled diagram for it. 3
- 8 Rohan observes his image in a plane mirror. 3
 - a) State two characteristics of the image formed in a plane mirror.
 - b) State one way in which the image in the plane mirror differs from Rohan.
- 9 Give the scientific term associated with the following: 3
 - a) Change in the position of an object with respect to time or surroundings.
 - b) Type of motion along a curved line.
 - c) Circular movement in which the body moves about an axis.
 - d) The to and fro motion of a pendulum.
 - e) The movement of a car on a crowded road.
 - f) Repetitive movement which takes place at equal intervals of time.
- 10 a) While measuring the length of a paper clip on a scale, the reading at one end is 1 cm and at the other is 4.3 cm. What is the length of the paper clip? 3
b) The length of a book rack is 2.15 m. Express this length in:
 - (i) cm
 - (ii) mm.
- 11 Give reasons for the following: 3
 - a) We cannot drink milk in a tumbler made up of cloth.
 - b) The lenses of spectacles are always made from plastic or glass.

c) Handles of utensils are made up of plastic.

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

3



- a) Define the process shown above in the diagram.
b) Label the substances A and B.
c) Write any two substances that can be separated by this process.
- 13 The material “A” 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”? Define the process “C” and “D”. 3
- 14 Explain three adaptations found in a fish that help it to swim easily in water. 2+1
- 15 a) Define skeleton? Write its two functions. 3
b) Differentiate between bone and cartilage.
- 16 Give reasons for the following: 3
a) Snake moves by turning its body into several loops.
b) A child has approximately 300 bones but an adult skeleton is made up of 206 bones.
c) Long bones of the skeleton in human beings are hollow.
- 17 Sita is suffering from continuous bleeding of gums. Her friend, Gita notices it and suggests her to have food items rich in calcium as she might be suffering from its deficiency. 3
a) Write any two qualities possessed by Gita?
b) List any two food items that should be eaten by Sita to overcome her deficiency.
c) Give any other two examples of deficiency diseases.
- 18 “Water plays a vital role in our body”. Justify this statement by giving any three functions of water in our body. 3
- 19 a) Ram bought a polyester shirt and a terycotton shorts and kept them in a jute bag. Classify the given fibres into three different categories and define each category. 5
b) What is retting? Why is it done?
- 20 a) Explain three ways of disposal of garbage. 5
b) What is biodegradable waste? Give an example and write the colour of the dustbin meant for throwing biodegradable waste.
- 21 a) Explain how a plane mirror is made? 5
b) Sita is standing 5 m away from the plane mirror. Then she moves 2 m towards the mirror. Find out the distance between her and her image?
- 22 a) What is measurement? You are given a bed to measure its length. Which one will you use- measuring tape or hand span and why? 5
b) Raj wants to measure the length of table using a scale. But he does not know what all precautions should be taken while using the scale. Explain any three precautions.
- 23 What are joints? Describe four types of movable joints in human body. 5
- 24 a) Explain an activity to check the presence of protein in boiled rice. 5
b) State two practices which leads to loss of nutrients while cooking.

Section - B

- 25 Excess loss of water from the tissues has occurred in Ram's body. Which condition is he suffering from? Write any one cause which results in this condition. 1
- 26 Which vitamin is produced in the human body when it is exposed to sunlight? Write a rich source of this vitamin. 1
- 27 How many bones are present in human skull? Name the movable bone in the skull. 1
- 28 What is the colour of the shadow formed if red colour object is viewed in green light? 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 Raj added 5 spoons of sugar and got a saturated solution. What will happen to the solubility if he heats the solution? 1
- 31 Multiple motions are exhibited by the Earth. List any two motions exhibited by the Earth. 1
- 32 Sheeba wants to measure the length of a curved line but she is unable to do it with a metre scale. Suggest her a way to measure it. 1
- 33 In order to check the density of the substance with respect to water, Ram puts wood and a coin into the tumbler of water. Which of the above given two things will float on water and why? 1
- 34 Rohan's bathroom window pane was broken by accident. He wants to fix it again. Write the type of glass he should fix. Support your answer with a reason. 2
- 35 One day Akshi dreamt that her cotton shirt was talking to her. It was telling its life story-from the cotton plant to becoming a shirt. In her story it took four steps for the entire process. List these steps. 2
- 36 a) One end of the ribs is joined to the backbone and the other end is joined to bone "A" in front. Identify the bone "A". A pair of bone "B" are found at the end of the rib cage which are attached only to the back bone. Identify "B". 2
b) Name the two organs which are protected by ribcage.