



ITL Public School

Summative Assessment 1(2015-16)

Date:21/09/15

Class: VI

SCIENCE (Set -A)

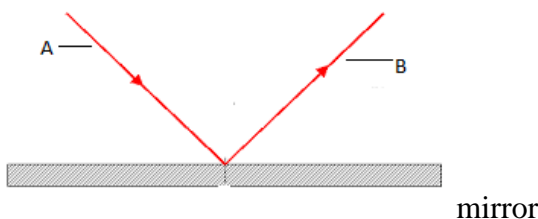
Time:3h

M. M: 90

General Instructions:

1. There are 36 questions in this paper.
2. Marks are indicated against each question.
3. Q 24 to Q 36 are based on practical skills.
4. All questions are compulsory.

- 1 What is the term used for the distance between the tip of the thumb to the tip of the little finger of a stretched open hand? 1
- 2 Fat rich foods provide energy to the body. Then why is it advised not to eat too much of fried food? 1
- 3 What is sericulture? 1
- 4 a) Which phenomenon of light is shown in the diagram given below? 2



- b) Name A and B.
- 5 a) Segregate the following items under the given headers:
Chair, plastic, wood , pen 2

MATERIAL	OBJECT

- b) What is the above process known as?
- 6 a) What type of garbage is used for composting and why? 2
b) Give two examples of such garbage.
- 7 a) Explain the process of making a plane mirror from a sheet of glass. 3
b) What is the nature of the image formed by a pinhole camera?
- 8 Differentiate between image and shadow on the basis of:
a) Colour b) Formation c) Size 3

- 9 While measuring the length of a knitting needle, the reading on the scale at one end is 3 cm and at the other end is 33.1 cm. 3
 a) What is the length of the needle?
 b) Express the obtained length in metres.
 c) Which precaution might have been used in the above case while taking the measurement?
- 10 Identify the processes shown in fig. 'A' and 'B'. Also define them. 3



Fig. A

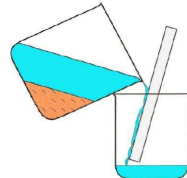
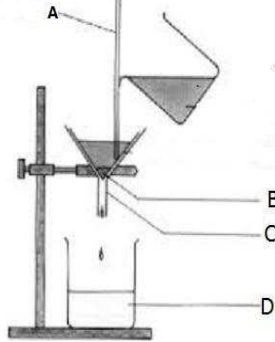


Fig. B

- 11 Give reasons for the following: 3
 a) Handles of utensils are made of plastic.
 b) Wooden logs float on water.
 c) Oil when added to water, floats on top.
- 12 Plastics are considered as a boon as well as a curse. Justify the statement by giving three points in favour of each. 3
- 13 Explain any three features of birds that help it to fly. 3
- 14 Rani was suffering from spongy and bleeding gums. Her friend Raj advised her to eat lots of citrus fruits as she might be suffering from deficiency disease. 3
 a) What are deficiency diseases?
 b) Which deficiency disease she might be suffering from? Give another example of deficiency disease.
 a) What values of Raj are shown by this? (Any two)
- 15 a) How do muscles control the movement of our arm? 3
 b) Give one example of voluntary and involuntary movements.
- 16 Sheena wants to prepare lemonade. So she dissolves sugar in water, but she observes after certain time that no more sugar is dissolved and sugar starts settling down. 3
 a) What type of solution is prepared in the above case?
 b) Also predict what will happen if the above solution is heated?
 c) Why is water known as the universal solvent?
- 17 Explain how 3R's help in managing generation of waste. 3
- 18 a) Why were ancient units of measurement replaced by SI units? 3
 b) Give the SI unit of the following:
 i) length ii) mass
- 19 a) Ram was standing 10 cm away from a plane mirror. He went 4 cm towards the mirror. 2+3
 i) Find the distance between Ram and mirror.
 ii) Find the distance between Ram and his image.
 b) Ram was trying to find his shadow in a dark room but could not find it. Suggest him three necessary conditions that are required for the formation of shadow.

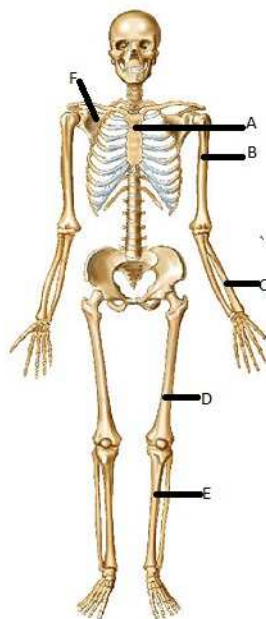
- 20 a) Write the proper terms for the following: 3+2
- change in the position of an object.
 - the motion of a car on a crowded place.
 - repetitive motion which takes place at equal intervals of time.
 - the to and fro motion of a pendulum.
 - motion along a curved line.
 - circular motion in which a body moves about an axis.
- b) Compare revolution and rotation.

- 21 a) Identify A,B,C,D in the given below diagram. 5



- b) Name the process shown in the diagram given above.
- c) Write the principle behind this process.
- d) Give an example of a mixture that can be separated using this method.
- 22 a) Write any two merits of synthetic fibres over natural fibres. 2+2+
- b) Classify the following as natural or synthetic fibres: 1
- cotton
 - polyester
 - acrylic
 - silk
- c) Name two devices that are used to convert fibres into yarn.

- 23 a) Identify A,B,C,D,E and F in the following diagram: 3+2



- b) Name one body part which has:
- Fixed joint
 - Gliding joint.

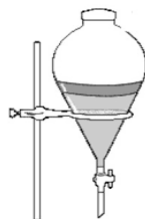
- 24 a) Write an activity to show the presence of starch in rice. 3+2
 b) Justify the following statements:
 i) Protein rich diet is given to pregnant woman and people recovering from illness.
 ii) Vegetables and fruits should not be washed after cutting or peeling.
- 25 When we raise our right hand in front of a plane mirror, our image raises its left hand. What is this phenomenon known as? 1
- 26 Suggest one method to measure the length of a curved line. 1
- 27 Bees move from one flower to another in search of nectar. What kind of motion is possessed by bees? 1
- 28 Ram has got a job as a chef in a hotel. Which kind of fibre should he wear while cooking the food? 1
- 29 You have been given a mixture of iron fillings and sand. How can you separate the components of the mixture? 1
- 30 Objects made up of metals like iron, copper, etc lose their shine after sometime. Give reason. 1
- 31 Rahul had a fractured bone of leg after an injury. How was the doctor able to detect the fracture in bone? 1
- 32 Why the burning of leaves has been banned by the government? 1
- 33 Redworms are added to compost to fasten the process. Name the structure used by them to digest food. 1

- 34 a) Identify the following part of the human skeleton. 2



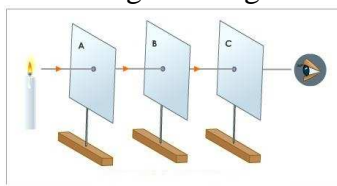
- b) How many bones are present in this?
 c) Name the movable part present in this.

- 35 a) Name the laboratory equipment shown in the given diagram. 2



- b) On which principle does it work?

- 36 a) Name the property of light shown in the given diagram. 2



- b) What is the speed of light?