

D.A.V. PUBLIC SCHOOLS, BHUBANESWAR
SUMMATIVE ASSESSMENT-I (2016-2017)

CLASS-VI

SUBJECT: GENERAL SCIENCE

TIME-2 ½ Hours.

F.M.-90

General Instructions:-

- All questions are compulsory.
- This question paper is divided into five sections A,B,C,D & E.
- SECTION-A consists of 6 multiple choice questions of 1 mark each.
- SECTION-B consists of 9 very short answer type questions carrying 1 mark each.
- SECTION-C consists of 9 short answer type questions carrying 2 marks each.
- SECTION-D consists of 9 short answer type questions carrying 3 marks each.
- SECTION-E consists of 6 long answer type questions carrying 5 marks each.
- Draw labeled diagrams wherever necessary.

SECTION-A

Choose the most appropriate option.

(1X6=6)

1. When a drop of iodine solution was put on the cut surface of a potato , it turned blue-black in colour .This indicates the presence of -
 - a. vitamin
 - b. protein
 - c. fat
 - d. starch
2. In which of the following case would diffusion be the faster ?
 - a. gas in another gas
 - b. a solid in a liquid
 - c. liquid in another liquid
 - d. a gas in a liquid
3. The process of loading helps to –
 - a. slow down the rate of sedimentation
 - b. speed up the rate of decantation
 - c. speed up the rate of sedimentation
 - d. slow down the rate of decantation

4. Which one of the following is not an example of a pure substance—
- Carbon
 - Copper
 - Air
 - Oxygen
5. All living organisms have –
- bones
 - cells
 - feathers
 - stems
6. The image formed by a pinhole camera is --
- errect and diminished
 - inverted and diminished
 - inverted and enlarged
 - errect and enlarged

SECTION-B

Answer the following questions in brief :

(1X9 = 9)

- What is vermicomposting?
- Write full forms of the terms PEM and PCM.
- Why do we need proteins ?
- Why do solids have a fixed shape and a definite volume?
- Why does the size of naphthalene balls , put in open keep on reducing with time ?
- State the difference between biennial and perennial plants.
- How are vertebrates different from invertebrates?
- State the type of path followed by light when it goes from one point to another.
- Name a device which can be used to see things on the other side of a high wall (without climbing over the wall).

SECTION-C

Answer the following questions.

(2x9=18)

- What is balanced diet ?
- Why should we include some fresh fruits and raw vegetables in our diet ?

3. State the difference between heterogeneous and homogeneous mixtures .
Give two examples of each type .
4. Draw a neat and well-labeled diagram of filtration method .
5. Give two differences between reversible and irreversible changes.
6. Give one example of physical change in which –
i) energy is given out ii) energy is absorbed.
7. Write two points of differences between herbs and shrubs.
8. A cloud is considered as non-living even though it can move and can grow bigger. Explain why .
9. State two characteristics of the image formed in a plane mirror.

SECTION-D

Answer the following questions.

(3X9=27)

1. State the differences between biodegradable and non-biodegradable materials. (Three Points)
2. Why is rain water harvesting a 'ray of hope' for overcoming the present 'scarcity of water ' in cities ?
3. Name the disease caused by the deficiency of :
 - a. Vitamin A
 - b. Vitamin B₁
 - c. Vitamin C
4. Define the term 'solubility'. How does it change on increasing the temperature of water?
5. Name any three methods used for separating a solid-solid mixture.
6. Classify the following as reversible and irreversible changes –
 - a. melting of chocolate
 - b. cooking of food
 - c. bursting of balloon
7. Water cycle is a natural change. Classify it as a
 - i) physical or chemical change
 - ii) a reversible or irreversible change .Also justify your answer.
8. What are the three conditions to observe a shadow ?
9. What do you mean by food chain ? Give one example of aquatic food chain.

SECTION- E

Answer the following in detail :

(5X6=30)

1. Explain with a diagram that shows the relationship between the biotic and the abiotic components of the environment.
2. A mineral 'X' is essential for the formation of component 'Y', in the blood of a person. The function of component 'Y', is to transport oxygen in the body. The deficiency of mineral 'X', in the diet of a person causes a disease Z. Identify X, Y and Z. Also mention any two symptoms of disease Z.
3. What is transparency? Briefly describe an activity to show that pure water is a transparent liquid.
4. a) What is saturated solution? Explain with an example.
b) What will happen if the saturated solution of a substance in water is
 - i) heated ?
 - ii) cooled ?
5. Sanchi noticed a collection of leaves , grass and some tiny twigs in one corner of her school building . She was about to remove them when her teacher , who was passing nearby , stopped her from doing so. The teacher told her that it was a nest being made by a bird , to lay eggs . She advised Sanchi to be kind and considerate towards all living beings.
 - a. List the values displayed by Sanchi's teacher.
 - b. Give an example each of i) vertebrate ii) an invertebrate animal that reproduce through eggs.
 - c. State the reason that might have made Sanchi think of removing the collection of leaves , twigs etc . , from the corner of the school building.
6. What is meant by luminous objects and non-luminous objects ? Explain with examples . State whether moon is a luminous object or non-luminous object.
