

# Maharashtra State Board

## Class VI Science

### Sample Paper – 1

**Time: 2 hrs**

**Total Marks: 60**

**General Instructions:**

1. All questions are compulsory.
2. The marks related to the question are given in brackets.

**I. Choose the correct alternative:**

**[15]**

1. The reaction to a stimulus by a living organism is called
  - (a) Movement
  - (b) Respiration
  - (c) Response
  - (d) Nutrition
2. What happens if the north poles of two magnets are brought in contact?
  - (a) Magnets attract each other
  - (b) Magnets repel each other
  - (c) Charge is created
  - (d) Magnets lose their magnetism
3. During filtration, the solution collected is called
  - (a) Residue
  - (b) Solute
  - (c) Filtrate
  - (d) Solvent
4. \_\_\_\_\_ is a narrow, stalk-like structure connecting the leaf to the stem.
  - (a) Lamina
  - (b) Veins
  - (c) Midrib
  - (d) Petiole
5. The envelope of air around the Earth is known as
  - (a) Atmosphere
  - (b) Hydrosphere
  - (c) Troposphere
  - (d) Stratosphere

- 6.** Water stored at a height in a dam possesses
- (a) Heat energy
  - (b) Thermal energy
  - (c) Potential energy
  - (d) Kinetic energy
- 7.** Saliva contains
- (a) Bile
  - (b) Ptyalin
  - (c) Pepsin
  - (d) Lipase
- 8.** Which one of the following correctly represents a food chain?
- (a) Grasshopper → Grass → Snake → Frog → Eagle
  - (b) Grass → Grasshopper → Frog → Snake → Eagle
  - (c) Eagle → Snake → Grasshopper → Grass
  - (d) Frog → Eagle → Grasshopper → Grass
- 9.** The SI unit of mass is
- (a) Quintal
  - (b) Metre
  - (c) Kilogram
  - (d) Newton
- 10.** Plants which live for many years are called
- (a) Annuals
  - (b) Biennials
  - (c) Perennials
  - (d) a and c
- 11.** Butter is obtained from rich yoghurt by the process of
- (a) Churning
  - (b) Filtration
  - (c) Settling
  - (d) None of the above
- 12.** Energy is stored in plants in the form of
- (a) Thermal energy
  - (b) Chemical energy
  - (c) Heat energy
  - (d) Both a and c

- 13.** A solar cell is made using thin discs of
- (a) Aluminium
  - (b) Nickel
  - (c) Strontium
  - (d) Silicon
- 14.** The fulcrum is in the middle in
- (a) The lever of first order
  - (b) The lever of second order
  - (c) The lever of third order
  - (d) It depends on the position of applied force
- 15.** The movement of a bird's wing is an example of
- (a) Circular motion
  - (b) Oscillatory motion
  - (c) Linear motion
  - (d) Periodic motion

**II. Answer the following:**

**[10]**

- 16.** Why rubber or plastic should not be burnt?
- 17.** What is meant by conventional sources of energy? Give examples.
- 18.** Why are Maglev trains not in common use?
- 19.** Give functions of (a) Digestive juices and (b) Alveoli.
- 20.** Explain the following terms:
- (a) Kinetic energy
  - (b) Displacement

**III. Answer the following:**

**[15]**

- 21.** State the three ways of classifying plants.
- 22.** Why do we sprinkle powder on the carrom board?
- 23.** Describe the Earth's core with respect to its form and temperature.
- 24.** How is a weighbridge used to weigh a loaded truck?
- 25.** State the harmful effects of ozone depletion.

**IV. Answer in brief:**

**[20]**

- 26.** Write the procedure used to separate sal ammoniac and sand from a mixture. Draw a well-labelled diagram.
- 27.** Give scientific reasons:
- (a) Screw is a simple machine.
  - (b) A girl sliding down a slide shows non-uniform linear motion.
- 28.** Why does a potted plant kept near the window bend?
- 29.** Write a short note on the production and uses of gobar gas.
- 30.** Describe the structure of a flower with the help of a labelled diagram.