

INDIAN SCHOOL MUSCAT
MIDDLE SECTION
QUESTION BANK- TERM –I – CLASS VIII
SCIENCE

1) Distinguish between force and pressure.

If the area of a marble piece weighing 200 N is 25sq.m, how much pressure can it apply when kept on the ground?

2) What is gravitational force? Why is it called a non contact force?

3) What is liquid pressure? State the factors on which liquid pressure depends.

4) What is atmospheric pressure? Name the instruments used to measure it. Why do rubber suckers stick strongly when pressed to a very smooth surface?

5) Name the forces acting on a plastic bucket containing water held above ground level in your hand. Discuss why the forces acting on the bucket do not bring a change in its state of motion.

6) Define force of friction. What is the cause of friction?

7) Why is friction a necessary evil? Explain.

8) State the reason for the following:

i) Ball bearings are used in most of the machines.

ii) Gymnasts often apply chalk powder on their hands.

9) Explain why sliding friction is less than static friction.

10) Explain why objects moving in fluids must have special shapes.

11) Draw and label animal cell and plant cell.

12) Where are chromosomes found in a cell? State their functions.

13) Why do plant cell has an additional layer surrounding the cell membrane?

What is this layer known as?

- 14) Differentiate between unicellular and multicellular organisms.
- 15) State the difference between eukaryotes and prokaryotes.
- 16) Mention any two applications for each of the following: (a) nylon,
(b) acrylic.
- 17) Draw a diagram to show linear and cross-linked arrangement of units in plastics.
- 18) Explain the difference between thermoplastics and thermosetting plastics.
- 19) What is polythene? Why is it non-biodegradable?
- 20) What is polyester? Write any two uses.
- 21) Give reasons: (a) Plastic containers are preferred for storing food.
(b) The handle and bristles of tooth brush are made of different materials?
- 22) Explain the formation of petroleum. Petroleum is called 'black gold'. Why?
- 23) State harmful effect of using fossil fuel.
- 24) Explain why fossil fuels are exhaustible natural resources.
- 25) What are the advantages of using LPG and CNG as fuel?
- 26) Describe how coal is formed from dead vegetation. What is this process called?
- 27) Define calorific value. Give its unit. In an experiment 10 kg of a fuel produced 200000 KJ of heat. Calculate the calorific value of fuel.
- 28) What are the three types of combustion? Explain with examples.
- 29) Make a labelled diagram of candle flame. Which zone of it is luminous and why?
- 30) What are the three essential requirements to produce fire? How fire extinguisher is useful for controlling the fire.
- 31) Write any four characteristics of a good fuel.
- 32) Explain the circumstances leading to acid rain. How does acid rain affect us?

- 33) Why does the increased level of nutrients affect the survival of aquatic organism?
- 34) Explain green house effect. How does it affect the environment?
- 35) State the causes of air pollution. Give two suggestions to reduce air pollution.
- 36) What is potable water? State different methods for the purification of water.
- 37) What are constellations? Name two.
- 38) Distinguish between asteroids and meteors.
- 39) Mention two practical applications of artificial satellites.
- 40) How can you distinguish stars and planets in the night sky?
- 41) What do you understand by the phases of the moon?
