

# Science Test 1

## Subjective Test

*(i) All questions are compulsory.*

*(ii) Questions 1 to 11 are very short answer type questions. These questions carry one mark each.*

*(iii) Questions 12 to 17 are short answer type questions. These questions carry two marks each.*

*(iv) Questions 18 to 26 are also short answer type questions. These questions carry three marks each.*

*(v) Questions 27 to 28 are long answer type questions and carry five marks each.*

**Question 1** ( 1.0 marks)

Give two examples of exhaustible natural resources?

**Question 2** ( 1.0 marks)

What causes acid rain?

**Question 3** ( 1.0 marks)

Define the term weeding with respect to agriculture.

**Question 4** ( 1.0 marks)

What is the role played by a cultivator?

**Question 5** ( 1.0 marks)

Define internal fertilization.

**Question 6** ( 1.0 marks)

Define the term menarche.

**Question 7** ( 1.0 marks)

Give two forces that are non-contact forces?

**Question 8** ( 1.0 marks)

What is a drag?

**Question 9** ( 1.0 marks)

What are the respective parameters on which loudness and pitch of a sound depend?

**Question 10** ( 1.0 marks)

What is electroplating?

**Question 11** ( 1.0 marks)

Which of the following substances is malleable: copper or sulphur?

**Question 12** ( 2.0 marks)

(i) What are fossil fuels?

(ii) How are they formed?

**Question 13** ( 2.0 marks)

Name the products that are obtained by the process of petroleum refining.

**Question 14** ( 2.0 marks)

List the traditional methods of irrigation.

**Question 15** ( 2.0 marks)

What is nitrogen fixation?

**Question 16** ( 2.0 marks)

How does deforestation of an area lead to drought?

**Question 17** ( 2.0 marks)

List some methods by which friction can be reduced?

**Question 18** ( 3.0 marks)

What is an electroscope? Describe its construction in brief?

**Question 19** ( 3.0 marks)

What is the solar system? List the inner and outer planets of the solar system.

**Question 20** ( 3.0 marks)

Explain the greenhouse effect?

**Question 21** ( 3.0 marks)

Give the difference between eukaryotic and prokaryotic cells.

**Question 22** ( 3.0 marks)

What are contact forces and non-contact forces? Give examples.

**Question 23** ( 3.0 marks)

How do we hear sound?

**Question 24** ( 3.0 marks)

**a)** In an experiment 3.2 kg of a fuel was burnt completely to produce 64000 kJ of energy. Compare the calorific value of this fuel with that of diesel (45000 kJ/kg).

**(b)** What is global warming?

**Question 25** ( 3.0 marks)

**(a)** What is polyester? Give examples.

**(b)** Plastic is a material of choice. Why?

**Question 26** ( 3.0 marks)

**(a)** Write the reaction of magnesium with oxygen and sulphuric acid.

**(b)** Explain the nature of the product formed by the reaction of magnesium with oxygen.

**Question 27** ( 5.0 marks)

**(i)** State the laws of reflection?

**(ii)** What is the phenomenon of lateral inversion?

**(iii)** A light is incident on a plane mirror in such a way that it makes an angle of  $32^\circ$  with the normal. Calculate the angle made by the reflected light ray with the mirror plane.

**Question 28** ( 5.0 marks)

Explain the difference between a plant cell and an animal cell with the help of labelled diagrams.

**OR**

Explain two methods of asexual reproduction in animals.

