

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° 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.

