

Goa Board
Class VIII Science
Term 1
Sample Paper - 3

Time: 3 hrs

Total Marks: 100

General Instructions:

1. The question paper consists of 44 questions and is divided into four sections, A, B, C and D.
 2. All questions are compulsory.
 3. Section A comprises question numbers 1 to 20. These are multiple choice questions carrying one mark each. You are to select one most appropriate response out of the four provided options.
 4. Section B comprises question numbers 21 to 30. These are SAQs carrying two marks each.
 5. Section C comprises question numbers 31 to 40. These are SAQs carrying four marks each.
 6. Section D comprises question numbers 41 to 44. These are SAQs carrying five marks each.
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SECTION A

- Q. 1** Which gas is released during the fermentation process? (1)
- A. Oxygen
 - B. Nitrogen
 - C. Carbon dioxide
 - D. Sulphur dioxide
- Q. 2** A farmer found several mustard plants growing in a wheat field. Identify the weed in this case. (1)
- A. Wheat
 - B. Mustard
 - C. Both mustard and wheat
 - D. Neither mustard nor wheat

Q. 3 Which agricultural implement is shown below? (1)



- A. Plough
- B. Hoe
- C. Cultivator
- D. Dhekli

Q. 4 After one month, which will become spoiled when kept in warm conditions—carrot or carrot pickle? (1)

- A. Carrot
- B. Carrot pickle
- C. Both carrot and carrot pickle
- D. Neither carrot nor carrot pickle

Q. 5 Identify the correct sequence of events. (1)

- A. Deforestation/Global warming/Disturbed water cycle/Droughts
- B. Disturbed water cycle/Droughts/Global warming/Deforestation
- C. Deforestation/Disturbed water cycle/Global warming/Droughts
- D. Global warming/Droughts/Deforestation/Disturbed water cycle

Q. 6 Which case will lead to minimum soil erosion? (1)

- A. Land with no vegetation of any kind.
- B. Land which has been converted into deserts due to deforestation.
- C. Land with a few vegetation here and there.
- D. Land with dense growth of vegetation.

Q. 7 Which of the following is not a synthetic fibre? (1)

- A. Rayon
- B. Nylon
- C. Coir
- D. Acrylic

Q. 8 What type of resources are thermoplastics? (1)

- A. Renewable
- B. Non-renewable
- C. Natural
- D. Can be made easily

- Q. 9** Magnesium metal is found in (1)
A. Chlorophyll
B. Sugar
C. Plastic
D. Blood
- Q. 10** Which of the following pairs will give a displacement reaction? (1)
A. FeSO_4 and silver metal
B. AgNO_3 and copper metal
C. CuSO_4 and silver metal
D. ZnSO_4 and iron metal
- Q. 11** Which gas is evolved when carbon reacts with dilute sulphuric acid? (1)
A. SO_2
B. CO_2
C. H_2
D. Carbon does not react with dilute sulphuric acid.
- Q. 12** Which among the following is not a product obtained from petroleum refining? (1)
A. Petrol
B. LPG
C. Hydrogen gas
D. Wax
- Q. 13** Which of the following energy source is exhaustible? (1)
A. Water
B. Sun
C. Coal
D. Wind
- Q. 14** Name the force which keeps the Earth going around the Sun? (1)
A. Gravitational force
B. Thrust
C. Upthrust
D. Frictional force
- Q. 15** What is the unit of force? (1)
A. N/m
B. N.m
C. N^2
D. N
- Q. 16** A 3.0-kg object is moving across a friction-free surface with a constant velocity of 2 m/s. Which one of the following horizontal forces is necessary to maintain this state of motion? (1)
A. 0 N
B. 0.5 N
C. 2.5 N

D. 6.8 N

Q. 17 Why are fish shaped the way they are? (1)

- A. To minimise the force of friction when they swim.
- B. To increase the friction of their mouth and help them to eat.
- C. To make them look beautiful.
- D. To increase water resistance so that they can swim faster.

Q. 18 Why does sandpaper produce a lot of friction? (1)

- A. Because it has a smooth surface.
- B. Because it has a rough surface.
- C. Because it is thin.
- D. Because it is thick.

Q. 19 Sound waves are (1)

- A. Longitudinal
- B. Transverse
- C. Partly longitudinal and partly transverse
- D. Sometimes longitudinal and sometimes transverse

Q. 20 Which out of the following characteristics determines the loudness of a sound wave? (1)

- A. Wavelength
- B. Frequency
- C. Amplitude
- D. Pitch

SECTION B

Q. 21 What are the functions of an ecosystem? (2)

Q. 22 Why is the drip system so named? (2)

Q. 23 Why does maida dough containing yeast powder rise after a few hours? (2)

Q. 24 Which of the following is the odd one out and why? (2)

Aedes mosquito, Anopheles mosquito, Malarial protozoan, Housefly

Q. 25 Why are plastic handles preferred in a sauce pan? (2)

Q. 26 Explain the formation of an alkali for the metal Potassium with the help of reactions. (2)

Q. 27 Where is petroleum found and how is it extracted? (2)

Q. 28 How does atmospheric pressure play a role while drinking through a straw? (2)

Q. 29 How does a matchstick light up? Explain. (2)

Q. 30 A child hears an echo from a cliff 6 seconds after the sound from a powerful cracker is produced. How far is the cliff from the child? Speed of sound in air is 340 m/s. (2)

SECTION C

- Q. 31** (4)
(i) Discuss any two problems which can arise if deforestation continues.
(ii) What is the relation between deforestation and obtaining fuel?
- Q. 32** (4)
(i) Why do damaged seeds float on water?
(ii) Mention three advantages of sowing seeds using a seed drill?
- Q. 33** (4)
(i) Write the symptoms of an animal suffering from disease?
(ii) Which is the common factor in the following diseases?
Tuberculosis, Measles, Citrus canker
- Q. 34** (4)
(i) How can we prevent diseases in animals?
(ii) Give two examples of leguminous plants.
- Q. 35** Explain with examples why thermoplastics become soft on heating but thermosetting plastics do not become hot on heating. Draw labelled diagrams to illustrate your answer. (4)
- Q. 36** Rashmi took a piece of burning charcoal and collected the gas evolved in a test tube. (4)
(i) How will she find the nature of the gas?
(ii) Write the word equations of all the reactions taking place in this process. (4)
- Q. 37** What precautionary measures can we take to conserve petrol or diesel? (4)
- Q. 38** (4)
(i) Can air pressure tell us about the kind of weather to expect?
(ii) Why do the soles of shoes have grooves?
- Q. 39** (4)
(i) Why are aeroplanes and ships designed with special shaped bodies? What is such a shape called?
(ii) Our palms become hot when rubbed against each other. Why?
- Q. 40** (4)
(i) Describe an activity to demonstrate the working of vocal cords to produce sound.
(ii) What is the speed of sound in air?

SECTION D

- Q. 41** (5)
- (i) Why is the excessive use of fertilisers harmful?
 - (ii) Differentiate between manures and fertilisers.
- Q. 42** What is a vaccine? How does it work? (5)
- Q. 43** What are the various fractions of petroleum and what are their uses (any five)? (5)
- Q. 44** (5)
- (i) Why don't we get crushed by the high atmospheric pressure all round us?
 - (ii) What is gravitational force? Give two examples from your daily life.
 - (iii) Why does the pointed end of a nail get into a wooden plank easily?