

**Goa Board
Class VII Science
Term 1
Sample Paper - 2**

Time: 3 hrs

Total Marks: 100

General Instructions:

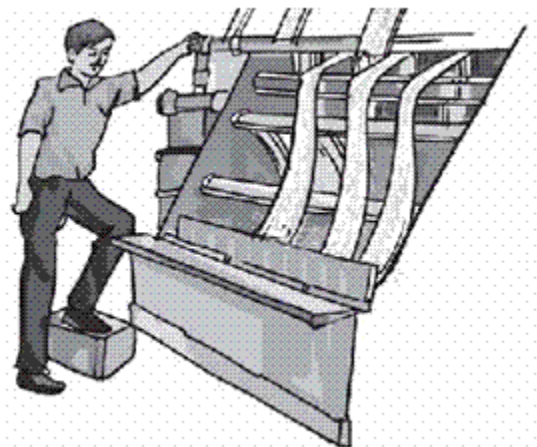
1. The question paper consists of 44 questions and is divided into four sections, A, B, C and D.
 2. All questions are compulsory.
 3. Section A comprises question numbers 1 to 20. These are multiple choice questions carrying one mark each. You are to select one most appropriate response out of the four 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** The part of the teeth which contains nerves and blood vessels is called (1)
A. Gum
B. Pulp cavity
C. Enamel
D. Dentine
- Q.2** Mistletoe is (1)
A. A partial parasite
B. A parasite
C. A symbiont
D. An insectivore
- Q.3** Earthworm traps oxygen from the soil with the help of (1)
A. Skin
B. Gills
C. Lungs
D. Spiracles

- Q.4** Monsoon winds which bring rainfall over India are (1)
- A. Summer monsoon winds
 - B. Winter monsoon winds
 - C. Southeast monsoon winds
 - D. Northeast monsoon winds
- Q.5** Which horizon of soil is rich in minerals? (1)
- A. A horizon
 - B. C horizon
 - C. B horizon
 - D. R horizon
- Q.6** What is false about anaerobic respiration? (1)
- A. It occurs in the absence of oxygen.
 - B. It is seen in bacteria and yeast.
 - C. In this respiration, glucose is broken down into lactic acid.
 - D. It releases a higher amount of energy than aerobic respiration.
- Q.7** At which stage does the silk moth cut open the cocoon? (1)
- A. Beginning of pupal stage
 - B. Adult stage
 - C. Larval stage
 - D. End of pupal stage
- Q.8** Which animal yields wool in South America? (1)
- A. Angora
 - B. Lori
 - C. Llama
 - D. Camel

Q.9 Which step of wool processing is shown in the following picture? (1)



- A. Scouring
- B. Shearing
- C. Sorting
- D. Dyeing

Q.10 Which of the following is not a property of acids? (1)

- A. Acids are sour in taste.
- B. Acids find use in preparing fertilisers.
- C. Acids can be corrosive or non-corrosive.
- D. Acids are used in the soap and detergent industry.

Q.11 Which of the following types of soils is well aerated? (1)

- A. Clayey soil
- B. Loamy and sandy soils
- C. Sandy soil
- D. Depends on the geographical region

Q.12 The taste of lime water (used in whitewashing) is (1)

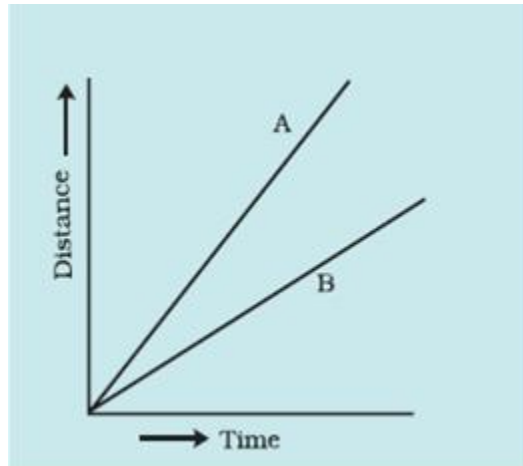
- A. Sweet
- B. Sour
- C. Bitter
- D. Salty

Q.13 Which of the following substances change the colour of China rose indicator to green?(1)

- A. Glucose solution
- B. Distilled water
- C. Soda water
- D. Common salt solution

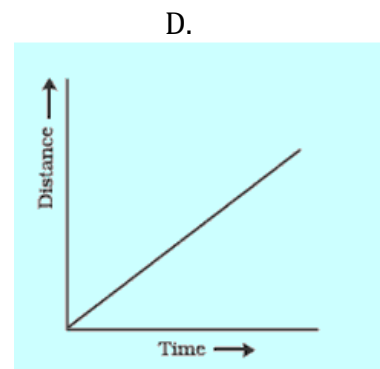
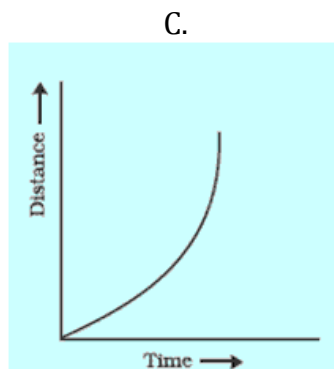
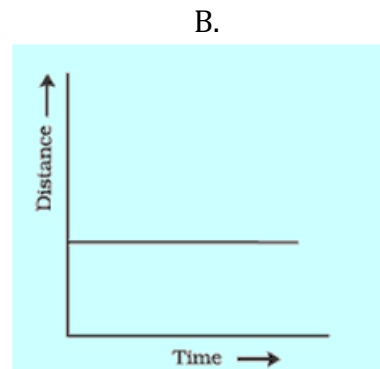
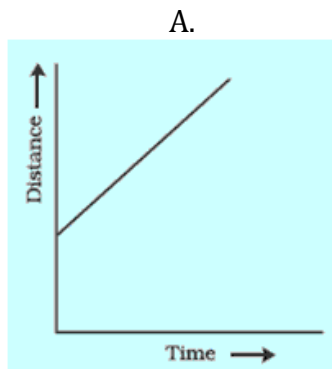
- Q.14** The pupil of your eye is a net (1)
A. Absorber of radiant energy
B. Emitter of radiant energy
C. Both of these
D. Neither of these
- Q.15** The air from the land towards the sea is called (1)
A. Sea breeze
B. Land breeze
C. Land cyclone
D. Smaller tsunami
- Q.16** While reading a thermometer, we should not hold it by the (1)
A. Bulb
B. Glass tube
C. Kink
D. Thread
- Q.17** The bulb in the thermometer has (1)
A. Oxygen
B. Mercury
C. Nitrogen
D. Carbon dioxide
- Q.18** One of the most well-known periodic motions is that (1)
A. Of sea waves
B. Of a car
C. Of a simple pendulum
D. All of the above

Q.19 Look at the figure given below and choose the correct option from the given options. (1)



- A. A is moving faster.
- B. B is moving faster.
- C. Both are moving at the same speed.
- D. Speed cannot be calculated.

Q.20 Which one of the following graphs shows a bike with speed 0 m/s? (1)



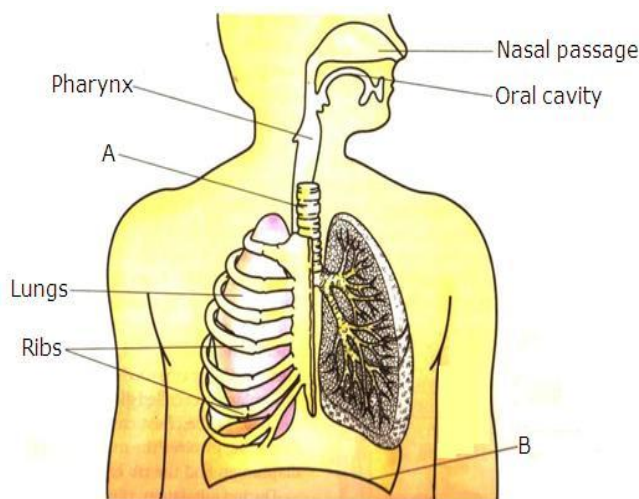
SECTION B

- Q.21** Why are the days shorter in winter than in summer? (2)
- Q.22** How do leguminous crops replenish the soil? (2)
- Q.23** Why is topsoil best for plant growth? (2)
- Q.24** What are yeasts? How do they respire? (2)
- Q.25** (2)
- (i) When is the shearing of fleece of sheep done?
 - (ii) Why does shearing not hurt the sheep?
- Q.26** Take an artificial (synthetic) silk thread and a pure silk thread. Burn these threads carefully. In a tabular column, write the difference in the smell while burning? (2)
- Q.27** How is tooth decay prevented? (2)
- Q.28** Can a clinical thermometer be used to measure the temperature of boiling milk? (2)
- Q.29** Show the shape of the distance–time graph for motion in the following cases: (2)
- (i) A bike moving with a constant speed.
 - (ii) A car parked on the road side.
- Q.30** 1 cm on the distance axis shows 1 m. How many cm axes do we need to show 10 km?(2)

SECTION C

- Q.31** (4)
- (i) Draw a neat labelled diagram of Amoeba.
 - (ii) What is the function of pseudopodia in Amoeba?
- Q.32** (4)
- (i) How is the trunk helpful to elephants?
 - (ii) State any two adaptations in penguins which help them to cope with the extreme cold climate in the polar regions.
- Q.33** (4)
- (i) Why are fewer plantations found in deserts?
 - (ii) Why is clay not suitable for growing plants?

- Q.34** (4)
(i) Identify A and B in the given diagram.



- (ii) What is the composition of the air which we inhale and exhale?

- Q.35** (4)
(i) What is the reeling of silk? How is the reeling carried out?
(ii) What are the varieties of silk? Which silk is most commonly used? Why?

- Q.36** (4)
(i) What is an indicator?
(ii) Three liquids are given to you. One is sulphuric acid, another is sodium hydroxide and the third is a salt solution. How will you identify them? You have only turmeric paper indicator.

- Q.37** (4)
(i) What is a salt?
(ii) What are the different types of salts? Give one example of each.

- Q.38** (4)
(i) One end of a wooden spoon is dipped in a cup of ice cream. What change will be observed at its other end?
(ii) Why do we use a handle of wood in a frying pan?

- Q.39** (4)
(i) Why are freezers of a refrigerator always at the top?
(ii) Why does hot air rise and cold air sink?

- Q.40** (4)
- (i) Why do we need to measure time?
 - (ii) A dog runs behind you for 30 minutes, and the distance covered by the dog is 3 km. What should be your minimum speed if the dog was not able to bite you?

SECTION D

- Q.41** (5)
- (i) Draw a well-labelled diagram of a section of a leaf.
 - (ii) What is the function of chlorophyll in the leaf of a plant?

- Q.42** (5)
- (i) How do dolphins breathe?
 - (ii) Why do humans sneeze?

- Q.43** The hair of an animal A is cut from its body in one piece along with a thin layer of its skin in the form of B. This process is called C. The B of this animal is then cleaned by using soap and a lot of water by a process D. The clean B is then converted into yarn E by the process of sorting, dyeing, combing and spinning. (5)

- (i) What could be A and B?
- (ii) Name the processes C and D.
- (iii) What is the yarn E?
- (iv) State one use of E.
- (v) Which breed of animal A is used for producing wool used for making woollen shawls?

- Q.44** (5)
- (i) Of a line graph, a pie chart and a bar graph, which one is the most suitable to show
 1. Runs scored in various overs of a cricket match?
 2. Variation of distance covered by a car with time?
 3. Percentage composition of air?
 - (ii) State two advantages of drawing distance–time graphs for moving objects.