

Sample Paper – 4

Goa Board Class VII Science Term 1 Sample Paper - 4

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.

SECTION A

Q.1 The first compartment of a cow's stomach is the

(1)

- A. Rumen
- B. Omasum
- C. Abomasum
- D. Gizzard
- **Q.2** Which one of the following is released during the process of photosynthesis? (1)
 - A. Nitrogen
 - B. Carbon dioxide
 - C. Energy
 - D. Oxygen

Q.3 Aestivation is

(1)

- A. Winter sleep
- B. Summer sleep
- C. Autumn sleep
- D. Another term for migration



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Q.4 Tl	ne pellets of frozen rain or ice falling in showers from clouds are called	(1)
A.	Rain	
B.	Hail	
C.	Fog	
D.	Mist	
Q.5 W	hich type of soil is found in the Shivalik range?	(1)
A.	Red soil	
B.	Alluvial soil	
C.	Black soil	
D.	Mountain soil	
Q.6 In	halation is a process of	(1)
A.	Taking in carbon dioxide	
B.	Taking in oxygen	
C.	Releasing oxygen	
D.	Releasing carbon dioxide	
•	hich is not TRUE about silk fibre?	(1)
A.	Silk fibre is soft.	
B.	Silk fibre is lustrous.	
C.	Silk fibre can be dyed in different colours.	
D.	Silk fibre is inelastic.	
Q.8 W	hich of the following is not a type of silk?	(1)
A.	Muga silk	
B.	Tassar silk	
C.	Kosa silk	
D.	Terry silk	
Q.9 Tl	ne pashmina shawl is a famous product from	(1)
A.	Delhi	
B.	Jammu and Kashmir	
C.	Himachal Pradesh	
D.	Assam	
Q.10 V	Which of the following acids is present in tamarind?	(1)
A.	Tartaric acid	
B.	Formic acid	
C.	Lactic acid	
D.	Acetic acid	

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Q.11 W	hich of the following bases cannot be used as an antacid?	(1)
A.	Sodium carbonate	
B.	Magnesium hydroxide	
C.	Sodium hydrogen carbonate	
D.	None of the above	
Q.12 W	hich of these gases are responsible for acid rain?	(1)
A.	Carbon dioxide	
B.	Sulphur dioxide	
C.	Nitrogen dioxide	
D.	All of the above	
Q.13 W	hich of the following will show no effect on turmeric paper?	(1)
A.	Lemon juice	
	Sodium hydroxide	
C.	Potassium hydroxide	
D.	Lime water	
Q.14 W	hich of the following statements is true for radiation?	(1)
A.	Radiation cannot travel through a vacuum.	
B.	Radiation travels at the speed of light.	
C.	Radiation can help ventilation in mines.	
D.	Radiation can cause sea breeze.	
Q.15 A	radiating source is usually	(1)
A.	Hot	
B.	Cold	
C.	Below room temperature	
D.	The Sun	
Q.16 W	hich of the following methods of heat transfer require a medium?	(1)
(I)	Conduction (II) Convection (III) Radiation	
A.	(I) and (II)	
B.	(II) and (III)	
C.	(I) and (III)	
D.	(I), (II) and (III)	
Q.17 Tł	e to-and-fro motion of a simple pendulum is an example of	(1)
A.	Linear motion	
B.	Circular motion	
C.	Oscillatory motion	
	All of the above	

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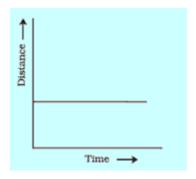
Q.18 The ages of stars and planets are often expressed in

(1)

- A. Millions of years
- B. Billions of years
- C. Hundreds of years
- D. Thousands of years
- Q.19 The meter which measures the distance moved by a vehicle is known as
- (1)

- A. Odometer
- B. Speedometer
- C. Thermometer
- D. None of the above
- Q.20 In the graph given below,

(1)



- A. Initial speed = Final speed
- B. Initial speed > Final speed
- C. Initial speed < Final speed
- D. (Initial speed Final speed) is non-zero



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SECTION B

Q.21 How does the food pipe help in the process of digestion?	(2)
Q.22 How are cyclones formed?	(2)
Q.23 Why is loamy soil the most fertile soil?	(2)
Q.24 Why do we feel hungry after a physical activity?	(2)
Q.25 Why is it advised to place twigs in trays while rearing silk moth?	(2)
Q.26 Which regions are the leading producers of yak wool and angora wool?	(2)
Q.27 Industrial waste should be neutralised before disposing it into water bodies. What is the nature of these wastes? How are these treated?	(2)
Q.28 Classify the following as bad or good conductors of heat: Iron, air, aluminium, water	(2)
Q.29 Why does coffee or tea stay hot longer in a shiny pot than a black pot?	(2)
Q.30 Calculate the time period of a pendulum which oscillates 100 times in an hour.	(2)
SECTION C	
Q.31 Why do grass-eating animals keep chewing continuously even when they are eating? What is this process called?	not (4)
Q.32(i) Why are monsoon winds known as seasonal winds?(ii) Why does sea breeze blow during the day?	(4)
Q.33(i) Why does the percolation rate affect the fertility of soil?(ii) How does humus prevent soil erosion?	(4)
Q.34(i) Explain the mechanism of breathing.(ii) What is cellular respiration?	(4)

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Q.35 Describe briefly how silk is produced.

(4)

Q.36 Consider the following salts:

(4)

Sodium sulphate, Sodium carbonate, Ammonium sulphate

The aqueous solution of which of these salts will

- (i) Turn blue litmus to red?
- (ii) Turn phenolphthalein to pink?
- (iii) Turn China rose indicator to green?
- (iv) Have no effect on any indicator?

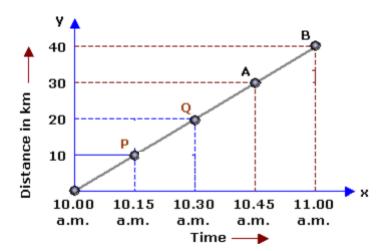
Give reasons for your answers.

Q.37 Neutralisation reactions play an important role in soil treatment. Elaborate. (4)

Q.38 Why should air coolers be kept higher up in the room and not down like heaters? (4)

Q.39

- (i) Name two types of graphs other than line graphs. (4)
- (ii) A body moves along a path. Its distance–time graph is shown below. How much time will it take to cover a 100-km distance?



Q.40

- (i) Which of the two is a bigger unit of time: Microsecond or nanosecond? (4)
- (ii) Give three daily life examples of non-uniform motion.

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SECTION D

Q.41 Describe different types of teeth and state their functions. (5)

Q.42

- (i) What is breathing? (5)
- (ii) Differentiate between aerobic and anaerobic respiration.
- **Q.43** The moth A lays hundreds of eggs. The eggs hatch to produce worms B which are fed cut leaves of tree C. After about 25–30 days, the worms stop eating and spin cocoons of fibres D. The fibres D are separated from cocoons by the process E. The spinning of these fibres produces a yarn which is woven on looms into fine cloth used for making saris etc. F is the most common variety of D fibres.
 - (i) What is moth A?
 - (ii) Name worm B and tree C.
 - (iii) What are fibres D?
 - (iv) Name the process E.
 - (v) Which variety is F?
- **Q.44** What is a clinical thermometer? What is the range of a clinical thermometer? (5) Explain why a clinical thermometer cannot be used to measure high temperatures.

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