

**Goa Board  
Class VIII Science  
Term 1  
Sample Paper - 5**

**Time: 3 hrs**

**Total Marks: 100**

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**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** Why cotton is called a kharif crop? Choose the incorrect reason from the given options . (1)

- A. It is grown in the rainy season.
- B. It is grown during the month of June to October.
- C. It grows best during the monsoon.
- D. It is grown when wheat and mustard are grown.

**Q. 2** Which is not a branch of animal husbandry? (1)

- A. Pisciculture
- B. Sericulture
- C. Apiculture
- D. Horticulture

**Q. 3** Identify the causative agent of foot and mouth disease in cattle. (1)

- A. Virus
- B. Bacterium
- C. Fungus
- D. Protozoan



- Q. 4** Ravi consumed some roadside food along with his friends. He had severe stomach ache and loose motions on reaching home. What is he suffering from? (1)
- A. Fever
  - B. Food poisoning
  - C. Sadness due to separation from friends
  - D. Dysentery
- Q. 5** Which of the following activities can help in the conservation of forests? (1)
- A. Recycling of cotton shirts.
  - B. Recycling of silk blankets.
  - C. Recycling of jute ropes.
  - D. Recycling of cardboard cartons.
- Q. 6** Which of the following is an endangered species of animals? (1)
- A. Dinosaur
  - B. Asiatic lion
  - C. Irish deer
  - D. Hyena
- Q. 7** The small repeating unit of a polymer is known as (1)
- A. Monomer
  - B. Dimer
  - C. Co-polymer
  - D. Homomer
- Q. 8** Which of the following is a thermosetting plastic? (1)
- A. Nylon
  - B. Rayon
  - C. Melamine
  - D. Polythene
- Q. 9** Metals usually used for making cooking utensils and water boilers are (1)
- A. Aluminium, magnesium
  - B. Copper, zinc
  - C. Zinc, iron
  - D. Aluminium, copper



**Q. 10**  $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$

Which type of oxide is magnesium oxide? (1)

- A. Basic
- B. Acidic
- C. Neutral
- D. Amphoteric

**Q. 11** Metals react with water to form either their respective oxides or hydroxides and liberate (1)

- A. Carbon dioxide gas
- B. Oxygen gas
- C. Hydrogen gas
- D. Steam

**Q. 12** Coal burns in air to form mainly (1)

- A. Carbon dioxide
- B. Carbon monoxide
- C. Carbon
- D. Water

**Q. 13** Which among the following is not a product obtained from petroleum refining? (1)

- A. Petrol
- B. LPG
- C. Hydrogen gas
- D. Wax

**Q. 14** Two charges of 10 C each are placed 10 cm apart and another two charges of 20 C each are placed 5 cm apart in air. In which case will there be more electrostatic force? (1)

- A. Between charges of 10 N each
- B. Between charges of 20 N each
- C. Same in both cases
- D. Cannot be calculated

**Q. 15** The rapid motion and collisions of molecules with the walls of the container cause (1)

- A. Gas pressure
- B. Gas temperature
- C. Humidity
- D. Contraction



- Q. 16** Which of the following is an example of vector quantity? (1)
- A. Force
  - B. Mass
  - C. Time
  - D. Distance
- Q. 17** A person has applied some mustard oil on his hands. Which of the following objects will be the most difficult for him to hold in his hand? (1)
- A. Thermocol glass
  - B. Earthen cup
  - C. Glass tumbler
  - D. Wooden cup
- Q. 18** Which of the following statements is incorrect? (1)
- A. Friction slows down motion.
  - B. Friction enables us to light a matchstick.
  - C. Nails can be fixed in a wall due to friction.
  - D. Friction increases the efficiency of machines.
- Q. 19** Sound produced by a dog whistle is in the (1)
- A. Audible range
  - B. Inaudible range
  - C. Musical range
  - D. Decibel range
- Q. 20** Sound travels more efficiently through (1)
- A. Solids
  - B. Liquids
  - C. Plasma
  - D. Gases



**SECTION B**

- Q. 21** We have read about floods being caused by deforestation. Explain how. (2)
- Q. 22** Differentiate between kharif and rabi crops. (2)
- Q. 23** Fertilisers are applied to plants in soil. Then how do they cause water pollution? (2)
- Q. 24** What is pasteurisation? Who discovered this process? (2)
- Q. 25** What is the need for recycling plastic bottles? Is it advisable to dispose of plastic wastes by burning? Give reasons. (2)
- Q. 26** Name the products formed in the following reactions. (2)
- (i) Dissolution of magnesium oxide in water.
  - (ii) Burning of sulphur in air.
- Q. 27** Why is it necessary to use coal economically? Give two reasons. (2)
- Q. 28** Explain the working of a vacuum cleaner? (2)
- Q. 29** Why do winter tyres usually have deeper treads than regular car tyres? (2)
- Q. 30** Why does a player tighten or loosen a guitar wire before he starts playing the same?(2)

**SECTION C**

- Q. 31** (4)
- (i) Discuss the importance of any three preservatives which can be used in pickles?
  - (ii) Name any two common preservatives.
- Q. 32** (4)
- (i) Discuss the working of the sprinkler system of irrigation.
  - (ii) What is water logging?
- Q. 33** (4)
- (i) Discuss any two problems which can arise if deforestation continues.
  - (ii) What is the relation between deforestation and obtaining fuel?
- Q. 34** (4)
- (i) What are the functions of an ecosystem?
  - (ii) How does carbon dioxide cause global warming?



- Q. 35** (4)  
(i) Give reason. Thermoplastics can be recycled.  
(ii) Explain the difference between thermoplastics and thermosetting plastics (two differences each).
- Q. 36** Describe the reaction of copper metal with moist air which takes place in nature along with equations. What is the nature of the green coating formed on the surface of copper vessels? How will you test its nature? (4)
- Q. 37** (4)  
(a) What are petrochemicals? Name any two petrochemicals.  
(b) Why are petrochemicals so important?
- Q. 38** Make a list of at least four effects of force which can be produced when an unbalanced force acts on an object. (4)
- Q. 39** (4)  
(i) Why is it difficult to light a matchstick by striking it on a smooth surface?  
(ii) State any two methods of increasing friction.
- Q. 40** Define pitch and timbre of a sound wave. (4)

**SECTION D**

- Q. 41** (5)  
(i) Write the symptoms of an animal suffering from disease?  
(ii) Which is the common factor in the following diseases?  
Tuberculosis, Measles, Citrus canker  
(iii) Who discovered the bacterium causing anthrax disease?
- Q. 42** What is transplantation? Write the advantages of the transplantation process. (5)
- Q. 43** (5)  
(i) What is destructive distillation of coal?  
(ii) What are the various products of coal obtained by the destructive distillation of coal? Explain them along with their uses.
- Q. 44** (5)  
(i) What makes us write on the black board with a chalk?  
(ii) How can we say that friction is an evil?