

**Goa Board  
Class VI Science  
Term 2  
Sample Paper – 4**

**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 of 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 of question numbers 21 to 30. These are SAQ's carrying two marks each.
  5. Section C comprises of question numbers 31 to 40. These are SAQ's carrying four marks each.
  6. Section D comprises of question numbers 41 to 44. These are SAQ's carrying five marks each.
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**SECTION A**

1. Which of the following is the purest form of natural water? [1]  
(a) Well water  
(b) Spring water  
(c) Rain water  
(d) River water
  
2. Jam bottles can be \_\_\_\_\_ to keep dals in the kitchen. [1]  
(a) Recycled  
(b) Reused  
(c) Incinerated  
(d) None of these
  
3. Which feeds the open wells? [1]  
(a) Groundwater  
(b) Rivers  
(c) Wells  
(d) Tanks

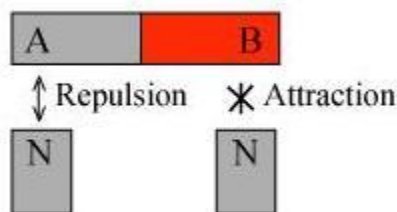
4. Which process of garbage disposal is shown in the given image? [1]



- (a) Vermicomposting  
(b) Incineration  
(c) Landfill  
(d) Composting
5. Which organ helps the deer to hear the movement of predators? [1]  
(a) Short ears  
(b) Lobed ears  
(c) Free ears  
(d) Long ears
6. The process by which energy is obtained is called [1]  
(a) Respiration  
(b) Circulation  
(c) Reproduction  
(d) Digestion
7. Sieving is not used when components of a mixture have [1]  
(a) The same shape  
(b) Different shape  
(c) The same size  
(d) Different size
8. Which technique will be used to separate a mixture of sand, salt and water? [1]  
(a) Handpicking, filtration, evaporation  
(b) Filtration, evaporation, condensation  
(c) Sieving, winnowing, sedimentation  
(d) Filtration, decantation, sieving
9. How is evaporation related to temperature? [1]  
(a) Evaporation increases with an increase in the temperature.  
(b) Evaporation decreases with an increase in the temperature.  
(c) Evaporation increases with a decrease in the temperature.  
(d) No effect of temperature on evaporation.

- 10.** Fixing of iron rim to the wooden wheel of a cart involves [1]  
(a) Heating followed by melting  
(b) Cooling followed by heating  
(c) Heating followed by cooling  
(d) Only heating
- 11.** Glowing of an electric bulb is? [1]  
(a) Irreversible change  
(b) Chemical change  
(c) Reversible change  
(d) All the above
- 12.** What does a balloon filled with air signifies? [1]  
(a) Air occupies space  
(b) Air does not occupy space  
(c) Air is a mixture of gases  
(d) Air is coloured
- 13.** What percentage of air is accounted by carbon dioxide, water vapour, dust particles and other gases? [1]  
(a) 21%  
(b) 78%  
(c) 99%  
(d) 1%
- 14.** The metal cap is the \_\_\_\_\_ terminal of the electric cell. [1]  
(a) positive  
(b) negative  
(c) neutral  
(d) both positive and negative
- 15.** The device which is used to allow current to flow in a circuit or cut it off when desired is called \_\_\_\_\_. [1]  
(a) fuse  
(b) plug  
(c) switch  
(d) socket
- 16.** Which is the odd one out? [1]  
(a) Glass  
(b) Tin  
(c) Iron  
(d) Steel

17. Two ends of a bar magnet are found to be attracted and repelled by the north pole of a magnet, as shown in the given figure. Which option correctly represents the polarities of the ends of the bar magnet? [1]



- (a) North-north  
(b) North-south  
(c) South-north  
(d) South-south
18. Two iron bars, bar 1 and bar 2, are kept close to a toy car and inside the toy car respectively, as shown in the given figure. The toy car gets attracted towards bar 2. When bar 1 is reversed, then the car gets attracted towards bar 2 again. It can be concluded from the given information that [1]



- (a) Both bars are magnets.  
(b) Both bars are non-magnetic.  
(c) Both bars are magnetic.  
(d) One bar is a magnet and the other is magnetic.
19. We should keep CDs, DVDs, ATM cards away from magnets because [1]  
(a) CDs, DVDs, ATM cards contain magnetic materials so, will become magnets.  
(b) CDs, DVDs, ATM cards will move in the opposite direction by the influence of the magnet.  
(c) CDs, DVDs, ATM cards contain magnetic materials; so, they may get damaged by the influence of a magnet  
(d) None of the above
20. An electromagnet is: [1]  
(a) A permanent magnet  
(b) A temporary magnet  
(c) Sometimes permanent magnet and sometimes temporary magnet  
(d) None of the above

**SECTION B**

- 21.** What is the importance of rainfall occurring during the monsoon season in India? [2]
- 22.** Give the correct term for the following: [2]
- (a) The waste generated everyday from our homes, schools and offices.
  - (b) An area where the garbage collected from a city or town is dumped.
- 23.** [2]
- (a) What happens to the organisms which are unable to adapt to the changes of its habitat?
  - (b) List the two important factors of any habitat.
- 24.** How do farmers usually dispose the husk, dried leaves and waste part of crop plants in their field? What is the disadvantage of this method? What is the alternative for this disposal method? [2]
- 25.** How do farmers separate grain seeds from the bundles of stalks? [2]
- 26.** Identify the reversible and irreversible changes in the following: [2]
- i. Evaporation of water
  - ii. Burning of paper
  - iii. Melting of wax
  - iv. Fermentation
- 27.** Why do you think, mountaineers carry oxygen cylinders with them, while climbing high mountains? [2]
- 28.** Draw the symbols of cell and battery. [2]
- 29.** What does the given figure show? [2]



- 30.** What are insulators? Give any two examples. [2]

**SECTION C**

- 31.** [4]  
(a) To clean their spectacles, people often breathe out on glasses to make them wet. Explain why the glasses become wet?  
(b) What is the importance of water cycle in nature?
- 32.** [4]  
(a) How recycling and reuse are different from each other?  
(b) Garbage disposal of polythene bags poses a huge problem. Why?
- 33.** Floods occur frequently in many parts of West Bengal and Odisha. Discuss any four problems encountered during such floods. [4]
- 34.** [4]  
(a) How vermicomposting is different from traditional composting?  
(b) Give reasons:  
i. We should not put wastes containing salt, oil and milk preparations in the waste pits as food for red worms.  
ii. It is better to mix powdered egg shells or sea shells with the wastes to be put in waste pits.
- 35.** [4]  
(a) Is it possible to separate a mixture of salt and sugar using water as a solvent?  
(b) How will you separate a mixture of iron fillings, chalk powder and common salt?
- 36.** Differentiate between physical and chemical changes. [4]
- 37.** What is smoke? How is smoke produced? Explain why, tall chimneys are installed in factories. Why do traffic policemen regulating traffic often wear masks? [4]
- 38.** [4]  
(a) Why a fused bulb does not glow?  
(b) Why should an electrician use rubber gloves while repairing an electric switch at your home?
- 39.** [4]  
(a) When we rub soil or sand with a magnet, we find some particles of soil or sand remain attached to it. Why does it happen?  
(b) Will a magnet show its properties if it is accidentally dropped from some height? Why or why not?
- 40.** [4]  
(a) What is the purpose of using electric switches?  
(b) Why the two terminals of the electric cell are never joint together without connecting them through a switch and a device like a bulb?

**SECTION D**

- 41.** [5]
- (a) What is the importance of the following life characteristics:
- i. Response to stimulus
  - ii. Respiration
  - iii. Excretion
- (b) Are seeds living or nonliving? Cite an example to support your answer.
- 42.** [5]
- (a) Discuss how condensation of water in air leads to rain formation.
- (b)
- i. Write any two ways by which people are able to utilize ground water.
  - ii. In which areas the seepage of rain water into ground is reduced?
- 43.** [5]
- (a) Define saturated solution.
- (b) What is the principle and technique used in sedimentation and decantation method?
- (c) What will happen if the saturated solution of a substance in water is
- i. heated and ii. cooled?
- 44.** [5]
- (a) Briefly describe the structure of magnetic compass.
- (b) How is the magnetic compass used to know the directions of a place?