

**Goa Board  
Class VIII Science  
Sample Paper – 1  
Term II**

**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**

**Attempt all questions from this section.**

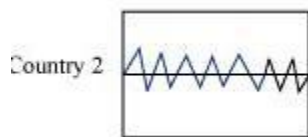
1. AIDS is a syndrome caused due to infection by a [1]  
(a) Bacteria  
(b) Virus  
(c) Worms  
(d) Protozoa
2. What do we call the storage sacs of the cell? [1]  
(a) Plastids  
(b) Vacuoles  
(c) Mitochondria  
(d) Ribosomes
3. Name the rod shaped structures present in the nucleus of the cell. [1]  
(a) Genes  
(b) Chromosomes  
(c) Nucleosome  
(d) Nucleolus

4. The transformation of larva into an adult is called [1]  
(a) Reproduction  
(b) Metamorphosis  
(c) Transformation  
(d) Translocation
5. What term is used for the stoppage of the menstrual cycle? [1]  
(a) Ovulation  
(b) Menstruation  
(c) Menarche  
(d) Menopause
6. The sac containing the testis is called the [1]  
(a) Testicle  
(b) Scrotum  
(c) Epididymis  
(d) Oviduct
7. Substances which catch fire instantly on exposing to a flame are called [1]  
(a) Exhaustible substances  
(b) Flammable substances  
(c) Inflammable substances  
(d) Inexhaustible substances
8. Increased concentration of carbon dioxide in the air causes [1]  
(a) Global Warming  
(b) Deforestation  
(c) Cooling  
(d) Asthma
9. For a person on fire, which of the following can be used to extinguish fire? [1]  
(a) Paper  
(b) Blanket  
(c) Wood  
(d) Cotton cloth
10. Maximum light emitted by a candle comes from the [1]  
(a) Red zone  
(b) Yellow zone  
(c) Blue zone  
(d) Orange zone

- 11.** Which acids are responsible for the formation of acid rain? [1]
- (a) Carbonic acid only
  - (b) Sulphuric acid and hydrofluoric acid
  - (c) Carbonic acid and acetic acid
  - (d) Sulphuric acid and carbonic acid
- 12.** Carbon monoxide when inhaled binds to hemoglobin in the blood and forms a compound called [1]
- (a) Decarboxyhemoglobin
  - (b) Oxyhemoglobin
  - (c) Carboxyhemoglobin
  - (d) Carboxylhemoglobin
- 13.** Which of the following is not a chemical method to purify water? [1]
- (a) Use of bromine
  - (b) Use of Chlorine
  - (c) Use of Hydrogen peroxide
  - (d) Filtration
- 14.** Why is it dangerous to touch electrical appliances with wet hands? [1]
- (a) Because water is a good conductor of electricity
  - (b) Because water is a poor conductor of electricity but damages electrical appliances
  - (c) Because water might get heated up and cause burns
  - (d) All of the above

15. Rahul wants to purchase a house in a country. He has to choose a place among four countries. The seismographic readings of four countries are shown in the given figure. Among the given countries, which country should he select for living? [1]

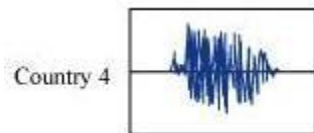
(a)



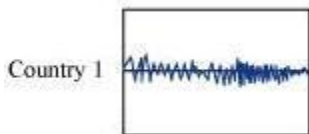
(b)



(c)



(d)



16. Two bodies A and B (A bigger than B) are rubbed together. Which of the following statement is true? [1]

- (a) A and B get equal and opposite charges.
- (b) A and B get equal and similar charges.
- (c) A gets more charge than B but of opposite kind.
- (d) A gets less charge than B but of opposite kind.

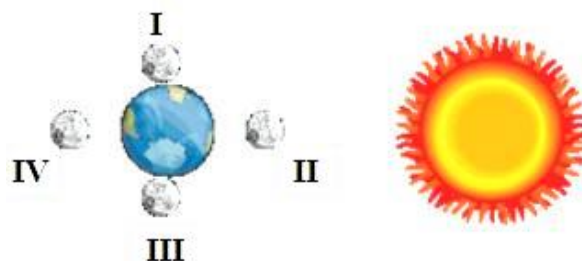
17. State the number of images of an object placed between two mirrors inclined at  $90^\circ$  to each other. [1]

- (a) 3
- (b) 4
- (c) 5
- (d) Infinite

18. Which part of the eye gives it a distinctive color? [1]

- (a) Pupil
- (b) Iris
- (c) Retina
- (d) Cornea

19. The given diagram shows four positions of the Moon in its orbit around the Earth. [1]



The full moon phase is represented by the position labeled

- (a) I
- (b) II
- (c) III
- (d) IV

20. Following are pairs of various constellations and the number of prominent stars in them. Choose the incorrect alternative. [1]

- (a) Orion - 3
- (b) Cassiopeia - 5
- (c) Ursa major - 7
- (d) Leo major - 9

**SECTION B**

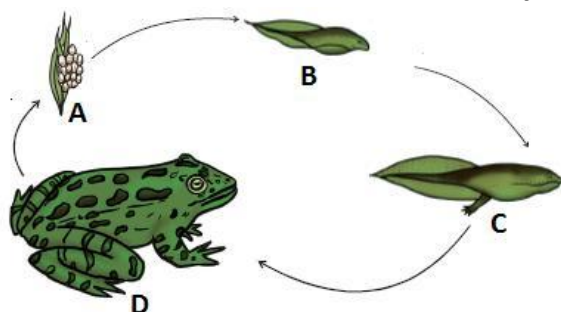
21. Write two functions of the plasma membrane of animal cells. [2]

22.

(a) How is the zygote formed in sexual reproduction?

(b) Where does the development of a baby take place in humans? [2]

23. Name the four stages A, B, C and D shown in the below life cycle. [2]



24. What do you understand by adolescence? When does it take place? [2]

25. Can rusting of iron be considered as an example of combustion? Explain the answer with reasons. [2]

26. How does the quantity of  $\text{CO}_2$  in the atmosphere rise and become excessive? [2]

27. Name the different types of air pollutants? Give one example of each. [2]

28. Draw the internal structure of the Earth. [2]

29. Select the optical aids among the following: Telescopic aids, Bifocal lenses, Tactual aids, Auditory aids, Contact lenses, Tinted lenses. [2]

30. Why does the Moon change its shape every day? [2]

**SECTION C**

- 31.** Draw a labelled diagram of the human ovum. [4]
- 32.** What changes occur in girls and boys during puberty? [4]
- 33.** List any four cell organelles found in animal cells and state their functions. [4]
- 34.** Differentiate between plant and animal cells. [4]
- 35.** [4]
- (a) What happens when coal is burnt in an insufficient supply of air in a room with closed doors and windows?
  - (b) The use of petrol and diesel as fuels in automobiles is being replaced by CNG. Why?
- 36.** What are the different ways to extinguish fire? Explain. [4]
- 37.** [4]
- (a) What are water pollutants?
  - (b) How are humans affected by water pollution?
- 38.** [4]
- (a) Describe an activity to show that charging can be done by rubbing of objects on each other.
  - (b) Why should materials not be classified as insulators? Can you suggest a more appropriate term instead of 'insulator'?
- 39.** [4]
- (a) Why is a ray of light considered as an idealisation?
  - (b) What are the uses of periscopes?
- 40.** [4]
- (a) Why do the stars appear to us like point objects?
  - (b) What is a meteorite? How does it help the scientists?

**SECTION D**

- 41.** [5]  
(a) Name and draw any three human cells having differing shapes.  
(b) What are prokaryotic cells? Give one example of a prokaryotic cell.
- 42.** [5]  
(a) Name any two organisms which reproduce by budding.  
(b) What is a bud?  
(c) Draw a neat diagram to show the process of budding in Hydra.
- 43.** Give reasons for the following: [5]  
(a) A matchstick can light a tiny splinter of wood but not a big log of wood.  
(b) Forest fires occur during the hottest summer days.  
(c) Dry leaves catch fire easily but it is difficult to burn a heap of green leaves.
- 44.** [5]  
(a) What effects does an electric current produce when flowing through a conducting solution?  
(b) A child staying in a coastal region tests the drinking water and also the sea water with his tester. He finds that the compass needle deflects more in the case of seawater. Can you explain the reason?