

**Goa Board**  
**Class VIII - Science**  
**Term 2**  
**Sample Paper – 2**

**Time: 3 hrs****Total Marks: 100**

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**General Instructions:**

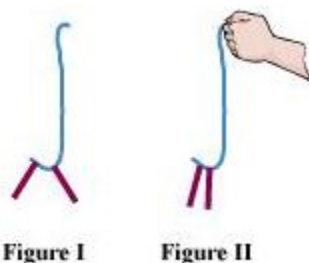
1. The question paper consists of 44 questions and is divided into four sections, A, B, C and D
  2. All questions are compulsory.
  3. Section A comprises of question numbers 1 to 20. These are multiple choice questions carrying one mark each. You are to select one most appropriate response out of the 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. Which of the following is a balanced diet in itself? [1]  
(a) Milk  
(b) Fruits  
(c) Vegetables  
(d) Pulses
  
2. Another name for the oviduct is the [1]  
(a) Fallopian tube  
(b) Ovary  
(c) Womb  
(d) Sperm duct
  
3. Mammary glands develop inside the [1]  
(a) Breast  
(b) Stomach  
(c) Throat  
(d) Intestine

4. External fertilisation takes place in which of the following animals [1]  
(a) Star fish  
(b) Fish  
(c) Frog  
(d) All of these
5. The Golgi body in plant cells is called [1]  
(a) Dictyosome  
(b) Centriole  
(c) Centromere  
(d) Plastid
6. Where do cell organelles lie in the cell? [1]  
(a) Cytoplasm  
(b) Nucleus  
(c) Mitochondria  
(d) Plasma membrane
7. Fire produced by oil cannot be controlled by [1]  
(a) Water  
(b) Fire Extinguisher  
(c) Sand  
(d) Woolen Blanket
8. Which of the following causes respiratory problems? [1]  
(a) Burnt carbon particles  
(b) Unburnt carbon particles  
(c) Dust particles dispersed in air  
(d) Leaves
9. A fire extinguisher [1]  
(a) cuts off the supply of air  
(b) brings down the temperature of the burning fuel  
(c) increases the temperature of the burning fuel  
(d) cuts off the supply of air and brings down the temperature of the burning fuel
10. The rate of combustion for an ideal fuel should be: [1]  
(a) High  
(b) Moderate  
(c) Slow  
(d) Rate of combustion has no effect

11. Which of the following is the main cause of global warming? [1]  
 (a) Decreasing levels of CO<sub>2</sub>  
 (b) Increasing levels of CO<sub>2</sub>  
 (c) Decreasing levels of NO<sub>2</sub>  
 (d) Decreasing levels of O<sub>2</sub>
12. Which pollutant gas is produced as a result of burning of fossil fuels like coal? [1]  
 (a) Nitrogen dioxide  
 (b) Sulphur dioxide  
 (c) Carbon dioxide  
 (d) Carbon monoxide
13. The major source of water pollution in unindustrialised countries is [1]  
 (a) Carbon dioxide  
 (b) Untreated sewage  
 (c) Industrial waste  
 (d) Nitrogen dioxide
14. Tap water is a good conductor of electricity because [1]  
 (a) it contains atoms  
 (b) it contains iron  
 (c) it contains salts  
 (d) it contains vitamins
15. Which effect of electric current is utilised when a thin layer of chromium metal is deposited on an iron tap? [1]  
 (a) Heating effect of electric current  
 (b) Magnetic effect of electric current  
 (c) Chemical effect of electric current  
 (d) None of the above
16. Figure I shows a pair of charged aluminium leaves that are attached to a metal strip. The leaves are shown as moving away from each other because they are charged by the same kind of charge. When Hari touches the metal strip, the leaves move towards each other and become relaxed, as shown in figure II. [1]



The leaves move towards each other because:

- (a) they loose their charges
- (b) the charges on the leaves increase manifold
- (c) one of the leaves becomes oppositely charged
- (d) the force of repulsion changes to the force of attraction

**17.** A communication system for the blind which includes raised dots arranged to represent letters of the alphabet is called? [1]

- (a) Arabic lettering
- (b) Morse code
- (c) Sign language
- (d) None of the above

**18.** Name the instrument which is used in submarines, tanks and also by soldiers in bunkers to see things outside? [1]

- (a) Kaleidoscope
- (b) Telescope
- (c) Periscope
- (d) Microscope

**19.** The angle between the orbital and equatorial planes of the Earth is [1]

- (a)  $23.5^\circ$
- (b)  $33^\circ$
- (c)  $47^\circ$
- (d)  $66.5^\circ$

**20.** Between the orbits of which two planets is the Asteroid belt found? [1]

- (a) Mercury and Earth
- (b) Earth and Mars
- (c) Mars and Jupiter
- (d) Mercury and Venus

**SECTION B**

21. Mention two important functions of the nucleus. [2]

22. Write a short note on human sperm. [2]

23. [2]

Age in years	Percentage of full height	
	Boys	Girls
8	72%	77 %
9	75%	81%
10	78%	84%
11	81%	88%

A girl is 10 years old and 126 cm tall. How tall will she be at the end of the growth period? **(Use the chart given above)**

24. [2]



Which disease is this child suffering from? Write its cause.

25. How can burning of fuels cause an increase in the temperature of the Earth leading to global warming? [2]

26. What are water pollutants? How does water become polluted? [2]

27. How does acid rain affect soil? [2]

28. What is an electrolyte? Give one example. [2]

29. Draw a diagram to show the formation of image of a point object in a plane mirror. [2]

30. Which constellation is called 'Saptarishi' and why it is so called? [2]

**SECTION C**

- 31.** [4]  
(a) Write any two changes occurring in the body shape of boys during puberty.  
(b) Why are acne and pimples commonly seen on the faces of girls and boys undergoing puberty?
- 32.** Draw diagram of the human sperm and label its parts. [4]
- 33.** Write a short note on cytoplasm. [4]
- 34.** Briefly describe the parts of the female reproductive system. [4]
- 35.** Define combustion. What are the different types of combustion? Describe them with one example each. [4]
- 36.** What are the various sources of air pollution? (any four) [4]
- 37.** [4]  
(a) What are greenhouse gases?  
(b) What are the causes of global warming?
- 38.** [4]  
(a) Mention the components of the circuit of a tester.  
(b) Mention three common solutions which are good conductors of electric current. What is common in these solutions?
- 39.** [4]  
(a) What is cataract? How can it be treated?  
(b) What is iris? Write its function.
- 40.** [4]  
(a) Why is there no life on the Moon?  
(b) Which is the planet nearest to the Sun? Why is it difficult to observe it?

**SECTION D**

- 41.** What are plastids? Briefly describe the different types of plastids. [5]
- 42.** What is binary fission? How does it take place? Name an organism in which binary fission takes place. [5]
- 43.** What are the various ways of controlling water pollution? (any five). [5]
- 44.** [5]
- (a) Cite any two examples where the objects may get charged when rubbed against any other object.
  - (b) What are seismic waves? Name the instrument which records these waves.