

**Goa Board
Class VIII Science
Sample Paper – 3
Term II**

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 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 among the following provide us with proteins as the major nutrient? [1]
(a) Pulses
(b) Meat
(c) Nuts
(d) All of these
2. In males, which hormone is released at the onset of puberty? [1]
(a) Testosterone
(b) Progesterone
(c) Estrogen
(d) Growth
3. The zygote develops into the [1]
(a) Egg
(b) Cell
(c) Baby
(d) Embryo

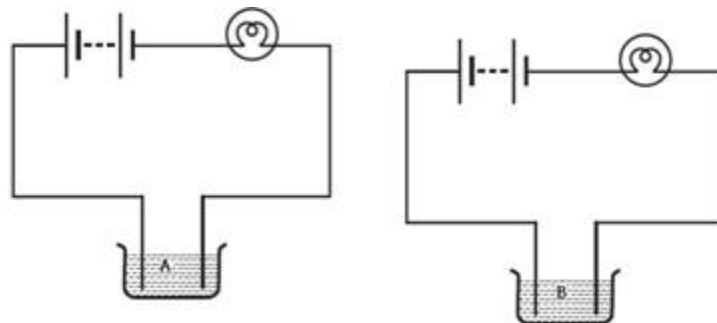
4. The fluid produced by the glands of the male reproductive system is [1]
(a) Sperm
(b) Urine
(c) Mucus
(d) Semen
5. Who discovered the nucleus? [1]
(a) Robert Hooke
(b) Robert Brown
(c) Purkinje
(d) M. Schleiden
6. Name the coloured pigments present in plant cell. [1]
(a) Plastids
(b) Vacuoles
(c) Mitochondria
(d) Ribosomes
7. Combustion of coal and petroleum products releases which of the following gases as one of the products? [1]
(a) SO₂
(b) CO₂
(c) MgO
(d) NO₂
8. Use of _____ in a vehicle reduces pollution. [1]
(a) Petrol
(b) Diesel
(c) CNG
(d) None of these
9. Water is not suitable for fire involving [1]
(a) Oil
(b) Electricity
(c) Plastic
(d) Wood
10. During the burning of a candle, which of the following burns? [1]
(a) Liquid wax
(b) Solid wax
(c) Wax vapours
(d) All of the above

11. The range of pH for an acidic solutions is [1]
 (a) 7
 (b) Below 7
 (c) Above 7
 (d) 14

12. Photochemical smog is said to have an adverse impact on plant growth. It affects plant growth [1]
 (a) By forming a layer on leaves
 (b) By blocking the sunlight
 (c) By blocking carbon dioxide absorption
 (d) All of the above

13. Which of the following is the major source of mercury entering the water bodies? [1]
 (a) Fertilisers
 (b) Industrial waste
 (c) Insecticides
 (d) Ignition of weapons

14. [1]



A tester is used to check the conduction of electricity through two liquids, labeled A and B. It is found that the bulb of the tester glows brightly for liquid A while it glows very dimly for liquid B. From the above observations one can conclude that:

- (a) Liquid A is a better conductor than liquid B.
 (b) Liquid B is a better conductor than liquid A.
 (c) Both liquids are equally conducting.
 (d) Conducting properties of liquids cannot be compared in this manner.
15. The electrode connected to the positive terminal of a battery is called the [1]
 (a) Anode
 (b) Pole
 (c) Cathode
 (d) Photo diode

- 16.** When an ebonite rod is rubbed with fur [1]
(a) Electrons move from the fur to the ebonite rod.
(b) Electrons move from the ebonite rod to the fur.
(c) Protons move from the fur to the ebonite rod.
(d) Protons move from the ebonite rod to the fur.
- 17.** What are the weak zones along the boundaries of plates where earthquakes are more likely to occur known as? [1]
(a) Seismic zones
(b) Richter zones
(c) Tsunami zones
(d) Lightening zones
- 18.** How many dot patterns or characters are there in the Braille system? [1]
(a) 53
(b) 63
(c) 76
(d) 74
- 19.** Which of the following features is not found on the surface of the Moon? [1]
(a) Craters
(b) Mountains
(c) Vegetation
(d) All of the above
- 20.** The number of natural satellites of the Earth is [1]
(a) 1
(b) 4
(c) 10
(d) 65

SECTION B

- 21.** What is the importance of the cell wall in a plant cell? [2]
- 22.** What is internal fertilisation? Name any two animals in which this fertilisation occurs. [2]
- 23.** Name one hormone secreted by: [2]
- (a) Adrenal gland
 - (b) Pituitary gland
 - (c) Pancreas
 - (d) Thyroid gland
- 24.** Will menstruation occur in case of pregnancy? Why? [2]
- 25.** Mention any two ways in which carbon dioxide can be supplied for extinguishing fires? [2]
- 26.** What are the measures which can be taken to prevent global warming? Write any two. [2]
- 27.** What is eutrophication? [2]
- 28.** Distilled water is a poor conductor of electric current. Hence explain why we should never touch electrical appliances with wet hands? [2]
- 29.** What are fault zones? [2]
- 30.** Give two differences between stars and planets. [2]

SECTION C

- 31.** [4]
(a) Differentiate between oviparous and viviparous animals.
(b) Write the steps in the lifecycle of silkworm.
- 32.** Write any three secondary sexual characteristics in females. Which hormone is responsible for the development of secondary sexual characteristics in females? [4]
- 33.** Briefly describe the structure of the nucleus. [4]
- 34.** [4]
(a) What is multiple fission?
(b) Name an organism in which multiple fission takes place.
(c) Diagrammatically represent the process of multiple fission.
- 35.** [4]
(a) What is a flame? Give an example of a liquid fuel which burns by producing a flame.
(b) Explain the three zones of a flame by taking the example of a candle flame.
- 36.** [4]
(a) What are the different types of fuels? Give two examples of each.
(b) How is the efficiency of a fuel expressed?
- 37.** [4]
(a) Define potable water.
(b) What are the different ways to make water safe for drinking at homes?
- 38.** [4]
(a) If a bulb based tester shows no deflection, what possible conclusions can be drawn? How will you check which of these is actually the correct conclusion.
(b) Why should materials not be classified as insulators? Can you suggest a more appropriate term instead of 'insulator'?
- 39.** [4]
(a) Which of the following cannot be charged by friction, if held by hand? (i) a plastic scale (ii) a copper rod (iii) an inflated balloon (iv) a woolen cloth. Why?
(b) Which device is used to determine the power of an earthquake?

40.

- (a) Identify the given constellation given below. When is it visible in the sky? [4]



- (b) Why is the planet 'Venus' called the morning or an evening star? [4]

SECTION D

- 41.** When is IVF done? Discuss how this process is carried out leading to the birth of test tube babies. [5]

- 42.** List any five changes which take place in boys and girls at puberty. [5]

- 43.** [5]

- (a) For boiling some water, which one will be preferred - LPG or coal or cow-dung cakes? Give reasons.

- (b) What are the characteristics of an ideal fuel?

- 44.** [5]

- (a) How do we see various objects?

- (b) Draw the structure of the human eye and label any three parts of it.