



INDIAN SCHOOL DARSAIT

SAMPLE PAPER-1, YEARLY EXAMINATION-MARCH 2018

SCIENCE

CLASS: VIII

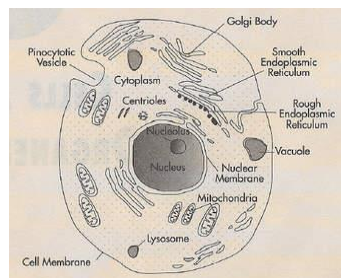
Max. Marks: 80

Time: 3 hours

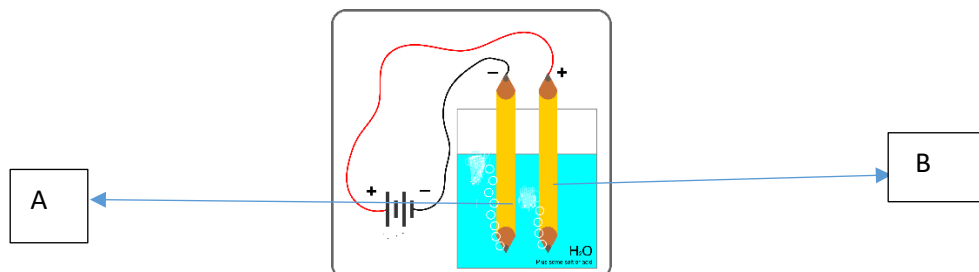
General Instructions:

- (i) All questions are compulsory.
- (ii) Marks for each question are indicated against it.
- (iii) Questions 1 and 2 are very short answer questions and carry 1 mark each.
- (iv) Questions 3 to 11 are short answer questions and carry 2 marks each.
- (v) Questions 12 to 20 are long answer questions and carry 3 marks each.
- (vi) **Question number 21 is a value based question of three marks**
- (vii) Question number 22 to 27 are long answer questions and carry 5 marks each.

- 1 If the angle between the incident ray and the reflected ray is 120° , What will be the angle of reflection? 1
- 2 Name the process by which new cells are formed? 1
- 3 State two differences between regular and diffused reflection with the help of ray diagrams. 2
- 4 What is seismograph? How does it work? 2
- 5 Define (i) frequency of vibrations. (ii) Amplitude of vibrations. 2
- 6 What are the effects that a force can have on objects? 2
- 7 List the any four different methods of food preservation. 2
- 8 What is a Red Data Book? How it can help in conservation of plants and animals.. 2
- 9 What is Manuring? List the advantages of using manure. 2
- 10 Write in detail the different systems of irrigation. Explain the advantages of modern methods. 2
- 11 (a) Observe the diagram given below and identify whether it is a Plant cell or an Animal cell. 2
Give two reasons to support your answer.



- (b) Which is the structure of the nucleus is a store house for information needed by the cell to function? 3
- 12 Distinguish between contact and non-contact forces with the help of two examples for each. 3
- 13 Explain the causes of an earthquake? 3
- 14 (a) What is electrolysis? 3
- (b)



Observe the diagram given above and answer the following questions.

- (i) Identify the anode and the cathode.
- (ii) What are the products formed at the anode and the cathode?
- 15 How do metals react with dilute acids? Name the products formed. Explain the reaction of zinc metal with dilute hydrochloric acid by giving the chemical equation. 3

OR

How do metals react with water? What are the products formed? Explain the reaction with the help of a chemical equation.

- 16 Compare the physical properties of metals and non-metals. 3
- 17 List few communicable diseases with different mode of transmission, mention their causative microorganism & preventive measures. 3
- 18 (a) What is deforestation? Explain its adverse effects. 3
- (b) Mention the causes of deforestation.
- 19 (a) Mention the differences between Testosterone and Estrogen. 3
- (b) Write in detail about nutritional needs of the Adolescents.

OR

How is the sex of a child determined genetically? Give schematic representation.

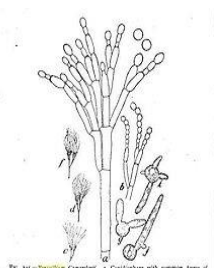
- 20 Write a short note and mention the functions of the following 3
- (a) Cytoplasm (b) Mitochondria (c) Endoplasmic reticulum.

OR

Draw a neat diagram of plant cell and label following parts.

- (a) Nucleus (b) Cell membrane (c) Plastids (d) Chromosomes

- 21 Sonu and Manu went for a morning walk near a pond situated near his grandpa's house. Sonu observed some black coloured cluster of eggs floating in pond water. He asked following questions to Manu .Now answer the following questions on behalf of Manu. 3
- (a) What holds the eggs together?
- (b) Why eggs laid by a frog are many in number whereas a hen lays only one egg at a time?
- (c) Mention the different stages of development of egg into adult frog.
- (d) Which values are shown by Sonu?
- 22 (a) Draw a well labelled diagram of female reproductive system. 5
- (b) Draw the diagram of human sperm and label the parts.
- 23 What are hormones? Name the different Endocrine glands along with the hormones secreted by each. Mention the functions. 5
- 24 (a) Describe nitrogen cycle with the help of neat labeled diagram. 5
- (b) Name the given microorganism and the group to which it belongs.



c)Write one use of this microorganism.

OR

- (a) Mention any six uses of Microorganisms.
- (b) Write a short note on harmful effects of microorganisms.
- 25 (a) Explain how sound is produced in humans. 5
- (b) What are the different parts of the ear and explain how humans are able to hear the sound.
- 26 What is electroplating? Explain the electroplating of iron key with copper with the help of a neat labelled diagram. 5
- OR**
- (a) Write a short note on LED. What is the advantage of LED while testing the conductivity of liquids?
- (b) Distinguish between (i) Anode and cathode (ii) Anion and cation
- 27 (a) What will be the number of images formed if two mirrors are kept at an angle of 5
- (i) 180° (ii) 60°
- (b) What are rods and cones? Write their functions.
- (c) Write the characteristics of the image formed by a plane mirror?