



INDIAN SCHOOL AL MAABELA

(ISO 9001:2015 CERTIFIED INSTITUTION)

SAMPLE PAPER- 2019-2020

SCIENCE

ISAM/FR/MDL/QP/02

CLASS: VIII

DATE:

Max. Marks: 80

Time: 3 Hours

General Instructions:

- (i) The question paper comprises of four sections. A, B, C and D. You are to attempt all the sections
- (ii) All questions are compulsory.
- (iii) Internal choice is given in sections B and C.
- (iv) Question numbers 1 to 10 in Section- A are one mark questions. They are to be answered in one word or in one sentence.
- (v) Question numbers 11 to 20 in Section - B are three marks questions. These are to be answered in about 30 words each.
- (vi) Question numbers 21 to 26 in Section - C are five marks questions. These are to be answered in about 50 words each.
- (vii) Question numbers 27 to 36 in Section - D are multiple choice questions carrying 1 mark each.

SECTION – A

- 1 Define pressure. Write its standard unit. 1
- 2 Explain why sliding friction is less than static friction. 1
- 3 What is drag? 1
- 4 How is sound produced? 1
- 5 Why plastic containers are favoured for storing food/ chemicals? 1
- 6 Phosphorous is kept in water. Why? 1
- 7 What is the advantage of electroplating iron with tin for food cans? 1
- 8 (a)Name the energy currency of the cell. 1
(b)Name the organelle involved in packing and transporting materials.
- 9 Give any two examples of kharif crops. 1
- 10 Define fermentation. 1

SECTION – B

- 11 How do liquids and gases exert pressure? 3

OR

Differentiate between contact and non-contact forces

- 12 What is muscular force? Why is it called a contact force? Write two examples of muscular force. 3
- 13 Draw a diagram to represent the following characteristics of sound 3
 - (a) High pitch
 - (b) Loud sound
 - (c) A pendulum oscillates 50 times in 5 seconds. Find its time period and frequency?

- 14 Bakelite and Polythene are plastics. Give difference in their structure and properties? 3
- 15 How is Rayon made? Give its important properties and uses? 3

OR

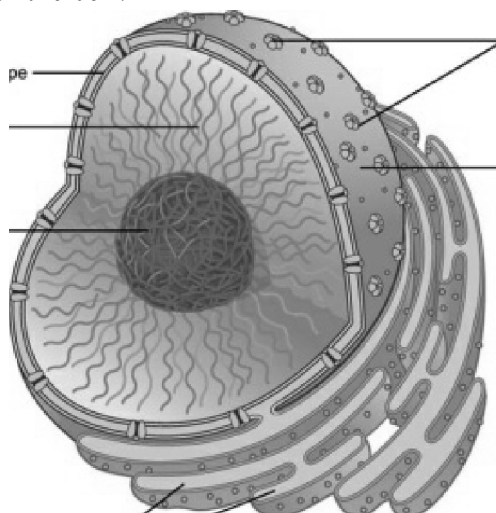
Differentiate between biodegradable and non-bio degradable plastics. Give example?

- 16 A non-metal was burnt in air. The product formed was dissolved in water. What be the reaction with (a) Red Litmus and (b) Blue litmus paper? Illustrate with an example. 3
- 17 (a) What happens when electricity is passed through (i) Tap water (ii) Distilled water. Give reason. 3
- (b) It is said that rainwater is as good as distilled water but rain water conducts electricity. What could be the reasons?
- 18 Name the causative microorganisms of the following diseases. 3
- (a) Tuberculosis
 - (b) Hepatitis A
 - (c) Malaria
 - (d) Citrus canker
 - (e) Measles
 - (f) Chicken pox

OR

Draw a neat labelled diagram of the nitrogen cycle.

- 19 (a) Differentiate between prokaryotic and eukaryotic cells. 3
- (b) Identify the following part of the cell.



- 20 Differentiate between chemical fertilisers and manure. 3

OR

What are the modern methods of irrigation?

SECTION – C

- 21 Friction is a necessary evil. Justify your answer with examples. 5
- 22 What is the difference between noise and music? Explain in what way noise pollution is harmful to humans. List sources of noise pollution in your surroundings? 5

OR

Explain how humans perceive sound?

- 23 Define electroplating? Give any two uses? Draw a labelled diagram of electrolytic cell used for electroplating an iron ring with copper. 5

OR

How will you show experimentally that an electric current can bring about a chemical change?

- 24 Define Displacement reactions? State whether a displacement reaction will occur if the following are mixed. Give reasons along with chemical reactions : (5) 5
- (a) Iron filings and Copper Sulphate solution
 - (b) Zinc dust and Iron Sulphate Solution
 - (c) Copper wire and Zinc Sulphate Solution
 - (d) Silver coin and Calcium Sulphate Solution

- 25 Explain the functions of the following cell organelles; 5
- (a) mitochondria (b) lysosomes (c) chloroplast (d) vacuoles (e) endoplasmic reticulum

OR

Draw a neat labelled diagram of an animal cell.

- 26 Explain the different methods of food preservation. 5

SECTION – D

- 27 Which force always opposes motion? 1
- (a) Magnetic force (b) Electrostatic force (c) Frictional force (d) Muscular force.
- 28 Which of the following is used in powdered form as lubricant? 1
- (a) Graphite (b) Chalk (c) Salt (d) Sugar.
- 29 People usually tend to -----on wet floor 1
- (a) run fast (b) stand still (c) slip (d) none of these
- 30 Which of the following voices is likely to have minimum frequency? 1
- (a) Baby girl (b) Baby boy (c) A man (d) A woman
- 31 Which is the coating material used in coatings of non-stick cook pans? 1
- (a) Bakelite (b) Melamine (c) Teflon (d) Polythene
- 32 Name the property of metals by virtue of it can be drawn into wires? 1
- (a) Malleability (b) Ductility (c) Sonority (d) Conductivity
- 33 The basic unit of an organism 1
- (a) cell (b) tissues (c) organ (d) organ system
- 34 The process of loosening and turning of the soil 1
- (a) tilling (b) sorting (c) winnowing (d) storing
- 35 A rabi crop 1
- (a) maize (b) groundnut (c) wheat (d) cotton
- 36 The bacteria responsible for curd formation 1
- (a) azotobacter (b) rhizobium (c) lactobacillus (d) none of these
