



INDIAN SCHOOL AL MAABELA

(ISO 9001:2015 CERTIFIED INSTITUTION)

SAMPLE PAPER- 2019-2020

SCIENCE

ISAM/FR/MDL/QP/02

CLASS: VIII

Max. Marks: 80

DATE:

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. (b) Name the organelle involved in packing and transporting materials.	1
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 (a) High pitch (b) Loud sound (c) A pendulum oscillates 50 times in 5 seconds. Find its time period and frequency?	3

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

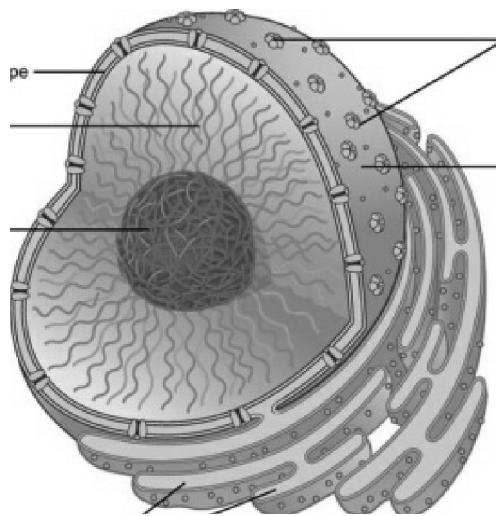
- (a) Tuberculosis
- (b) Hepatitis A
- (c) Malaria
- (d) Citrus canker
- (e) Measles
- (f) Chicken pox

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)

- (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
