



INDIAN SCHOOL AL MAABELA

(ISO 9001:2015 CERTIFIED INSTITUTION)

YEARLY EXAMINATION- 2019-2020

SCIENCE (SAMPLE)

ISAM/FR/MDL/QP/02

CLASS: VII

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,C and D.
- (iv) Question numbers 1 to 20 in Section- A are one mark questions.
- (v) Question numbers 21 to 29 in Section- B are two marks questions.
- (vi) Question numbers 30 to 38 in Section - C are three marks questions.
- (vii) Question numbers 39 to 41 in Section- D are five marks questions.

SECTION A

1. An antacid is likely to contain 1
a) Hydrochloric acid b) Calcium hydroxide c) Sodium hydroxide d) Magnesium hydroxide
2. A pendulum works on the principle of 1
a) periodic motion b) oscillation c) time period d) frequency
3. The reproduction of a new individual from their parent is known as 1
a) Reproduction b) Production c) Vegetative propagation d) Sprouting
4. A cyclone is called as _____ in Philippines and Japan. 1
a) hurricane b) tornado c) typhoon d) volcano
5. When parallel rays of light pass through concave lens, the rays 1
a) converge b) diverge c) bounce back d) go straight
6. The fluid part of the blood 1
a) plasma b) RBC c) WBC d) blood platelets
7. Which bird makes the longest migration? a) Arctic Tern b) Siberian crane c) Sparrow d) Parrot 1
8. Which of the following products are obtained from the forest? 1
a) timber b) firewood c) lac d) all the above
9. In which of the following, electromagnets are not used a) Crane b) Electric bell c) Washing machine d) Electric bulb 1
10. An effective and economical way of watering plants is a) by using sprinklers b) drip irrigation c) by canals d) all the above 1
11. Define aquifer. 1
12. Acidic soils are treated with bases like quicklime or chalk. Why? 1
13. Why do penguins huddle together? 1

14	Which acid is present in tamarind?	1
15	Veins have valves but arteries do not. Give reason.	1
16	What is algal bloom?	1
17	Expand MCB.	1
18	List the layers of the forest.	1
19	Name the instrument used to measure wind speed.	1
20	Which mirror is used in search lights and head lights?	1

SECTION B

21	How does a MCB work? Why is it preferred over an electric fuse?	2
22	Why is a forest called a dynamic living entity-full of life and vitality? Or How do forests prevent soil erosion?	2
23	Why are LED bulbs preferred over incandescent bulbs, fluorescent tubes or CFLs?	2
24	What is infiltration? How does concrete floor affect the water table?	2
25	Draw a well labelled diagram of the human excretory system.	2
26	Give two examples of seeds dispersed by wind.	2
27	Write the products formed during a neutralization reaction. Or What is the effect of excessive use of chemical fertilisers on the soil?	2
28	A train is running at a speed of 80km/hr. How much time will it take to cover a distance of 480 km?	2
29	State the main function of pulmonary artery and pulmonary vein.	2

SECTION C

30	a) What is the nature of the image formed by a convex lens? b) Which surface of spoon always forms an erect image of your face? c) Name a device that splits a beam of sunlight into its constituent colours. Or Which mirror is used as a side view mirror in the vehicles? How can it help the drivers to see the traffic behind them?	3
31	Draw the distance –time graph : a) For an object moving at a constant speed b) For a stationary object	3
32	Differentiate between insect pollinated and wind pollinated flowers.	3
33	Define drip irrigation. How does it help the farmers to use water economically? Or What is water table? List three factors that deplete the water table.	3
34	Is there any relation between the distance of the image from the mirror and that of the object in front of it? Justify your answer by giving suitable examples.	3
35	Draw a neat labelled diagram showing reproductive parts of a flower. Or Distinguish between sexual and asexual reproduction.	3
36	a) Why do elephants have modified teeth? b) Which adaptation of a red-eyed frog helps it to climb the trees? c) When is the minimum temperature of a day generally taken?	3
37	What is reflection? What are the types of reflections?	3

SECTION D

- 39 Define electric circuit. Draw a circuit diagram of an electric circuit containing a bulb, a switch and a cell when the switch is in: a) ON position b) OFF position 5

Or

How can we make an electromagnet? Explain with the help of a circuit diagram.

- 40 Describe the steps involved in getting clarified water from wastewater. What is the alternative arrangement for sewage disposal? 5

Or

a) Name the by-products obtained during wastewater treatment.

b) What are the sources of sewage?

c) Why is air pumped into the clarified water?

d) Name four water borne diseases.

- 41 Differentiate between an acid and a base on the basis of following parameters: 5

a) taste b) touch c) colour change with blue and red litmus

Name two natural indicators.

Or

How will you test whether a given solution is acidic, basic or neutral? You have turmeric paper, red and blue litmus paper.