



# INDIAN SCHOOL AL MAABELA

(ISO 9001:2015 CERTIFIED INSTITUTION)

YEARLY EXAMINATION- 2019-2020

## SCIENCE (SAMPLE)

ISAM/FR/MDL/QP/02

CLASS: VII

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,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 80 km/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.