

<b>NAME</b>		<b>ROLL NO.</b>	
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**INDIAN SCHOOL MUSCAT  
MIDDLE SECTION  
ANNUAL EXAMINATION 2019 – 2020  
SUBJECT – SCIENCE SET A**



Code: MZSC08  
Time Allotted: 2 ½ hrs  
Max .Marks: 80

CLASS 8  
09.03.2020

General Instructions.

1. The question paper comprises of three sections **A ,B& C**. You have to **attempt all** the sections.
2. All the questions are **compulsory**.
3. All the answers should be written in the **answer sheet** provided.

Q.NO1	<b><u>SECTION 'A' – ( '1' MARK EACH ) – TOTAL – 20 MARKS</u></b>	Marks
(a)	A unit of inheritance in living organisms. i. plastid                  ii. gene                  iii. cell                  iv. ribosome	1
(b)	A least polluting fuel is i. petrol                  ii. CNG                  iii. diesel                  iv. coal	1
(c)	In electrolytes, which of the following acts as carrier of charge? i. protons                  ii. electrons                  iii. neutrons                  iv. ions	1
(d)	A body vibrating with a higher frequency will i. have a lower pitch          ii. have a higher pitch          iii. be louder          iv. be softer	1
(e)	Sound can travel in i. solid                  ii. liquid                  iii. gas                  iv. all of these	1
(f)	Which of the following can be beaten into thin sheets? i. zinc                  ii. phosphorus                  iii. sulphur                  iv. oxygen	1
(g)	Reproductive phase in women starts when their i. menstruation starts                  ii. menopause begins iii. body weight increases                  iv. height increases	1
(h)	Control center of the cell. i. nucleus                  ii. mitochondria                  iii. lysosome                  iv. Golgi body	1
(i)	A tadpole develops into an adult frog by the process of i. fertilization                  ii. metamorphosis                  iii. embedding                  iv. budding	1
(j)	Which of the following cannot be charged easily by friction? i. a plastic scale                  ii. a copper rod                  iii. an inflated balloon          iv. a woollen cloth	1
(k)	What is potable water?	1
(l)	Why are viruses considered to be on the border line between the living and the	1

nonliving things?

- (m) Name two diseases caused by parasitic protozoa. 1
- (n) How does a vaccine work? 1
- (o) Why are the voices of men different from that of women? 1
- (p) Name the vibrating part that produces sound in tabla. 1
- (q) Immersion rods for heating liquids are made up of metallic substances. Give reason. 1
- (r) Write the functions of the following hormones- Insulin, thyroxine. 1
- (s) Give the location of adrenal gland and name the hormone secreted by adrenal gland. 1
- (t) In which female reproductive organ does the embryo get embedded? 1

Q.NO	<b><u>SECTION 'B' – ( '3' MARKS EACH ) – TOTAL – 30 MARKS</u></b>	Marks
(2)	a. Why is cell wall present in plant cells but not in animal cells? b. List the functions of cell membrane.	3
(3)	a. In an experiment 4.5 kg of a fuel was completely burnt. The heat produced was measured to be 180,000 kJ. Calculate the calorific value of the fuel. b. It is difficult to burn a heap of green leaves but dry leaves catch fire easily. Give reason.	3
(4)	a. The distance between the object and its image formed by a plane mirror appears to be 26cm. What is the distance between the mirror and the object? b. What kind of lens is present in our eyes? Where does it form the image of an object?	3
(5)	a. What are antibiotics? b. List two precautions taken while taking antibiotics.	3
(6)	a. Why do copper vessels turn green when exposed to moist air for a long time? b. Write the word equation of the above reaction. c. What is the nature of metallic oxides?	3
(7)	a. A simple pendulum makes 20 oscillations in 40 seconds. What is the time period? b. Saurav heard sound of thunderbolt 5 second after he saw flash of lightning. How far is he from the place where lightning occurs? (Speed of sound = 330m/s)	3
	OR	
	a. We cannot hear the sound of the exploding meteor in the sky, though we can see them. Why? b. What is meant by oscillatory motion?	
(8)	a. What is an electroscope? b. List two safety measures that should be taken during lightning and thunder.	3

- (9) a.What is static charge? How does this differ from electric current? 3  
b.How does glass rod becomes positively charged when rubbed with silk?
- (10) a.Differentiate between menarche and menopause.(1 point each) 3  
b. Name and state the functions of sex hormones.  
OR  
a.List 2 changes that takes place during puberty.  
b.What is Adam's apple?
- (11) a.Differentiate between viviparous and oviparous animals.(1 point each).Give one 3  
example each for viviparous and oviparous animals.  
b. What are secondary sexual characters?

Q.NO **SECTION 'C' – ( '5' MARKS EACH ) – TOTAL – 30 MARKS** Marks

- (12) a. State three differences between plant cells and animal cells. 5  
b. What are plastids?  
c. Write the function of plastid found in leaves.
- (13) a. Draw a labelled diagram of a candle flame. 5  
b. Which zone of a flame does a goldsmith use for melting gold and silver and why?
- (14) a.What is greenhouse effect? Name two greenhouse gases. 5  
b.How does the ozone layer protect life on Earth?  
c.What is Kyoto protocol?  
OR  
a.What is Ganga Action Plan?  
b. List two factors responsible for the pollution of river Ganga?  
c. What steps can be taken to restore the river Ganga into its past glory?(2 points)
- (15) a.State the laws of reflection. 5  
b.Draw a labeled diagram to show laws of reflection.  
c.The angle between the incident ray and the reflected ray is  $60^\circ$  What is the value of angle of incidence.
- (16) a.What is displacement reaction? 5  
b.What happens when iron nails are placed in copper sulphate solution?(2 points)  
c.Give the word equation of the above reaction.  
d.Identify the nonmetal used in water purification.
- (17) a.Draw a neat diagram showing electroplating a spoon with copper and label it. 5  
b. Iron cans used for storing food items are electroplated with tin. Give reason.  
OR  
a.Draw a neat diagram showing electrolysis of water and label the diagram.  
b. What are electrodes? Name two elements that can be used as electrodes.

End of the question paper.