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| NAME | | ROLL NO. | |
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**INDIAN SCHOOL MUSCAT
MIDDLE SECTION
ANNUAL EXAMINATION 2019 – 2020
SUBJECT – SCIENCE SET B**



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 | <u>SECTION 'A' – ('1' MARK EACH) – TOTAL – 20 MARKS</u> | Marks |
|-------|---|-------|
| (a) | The outer covering of the cell is the i. nuclear membrane ii. mitochondra iii. Cell membrane iv. ribosome | 1 |
| (b) | A tadpole develops into an adult frog by the process of i. fertilization ii. metamorphosis iii. embedding iv. budding | 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 low 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 cannot be beaten into thin sheets? i. zinc ii. phosphorus iii. aluminium iv. iron | 1 |
| (g) | Reproductive age in women starts when their i. menstruation starts ii. menopause starts. iii. body weight increases iv. height increases | 1 |
| (h) | Power house of the cell. i. nucleus ii. mitochondria iii. lysosome iv. Golgi body | 1 |
| (i) | The least polluting fuel is i. petrol ii. CNG iii. diesel iv. coal | 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 are air pollutants? | 1 |
| (l) | Why are the voices of men different from that of women? | 1 |

- (m) Name two diseases caused by virus. 1
- (n) How does a vaccine work? 1
- (o) Why are viruses considered to be on the border line between the living and the nonliving things? 1
- (p) Name the vibrating part that produces sound in tabla. 1
- (q) In which female reproductive organ does the embryo get embedded? 1
- (r) Write the functions of the following hormones- Insulin, thyroxine. 1
- (s) Give the location of adrenal glands and name the hormone secreted by it. 1
- (t) Identify the properties of metals that are used in a) making silver foil b) bells 1

| Q.NO | <u>SECTION 'B' – ('3' MARKS EACH) – TOTAL – 30 MARKS</u> | Marks |
|------|---|-------|
| (2) | a. Why cells are the basic structural and functional unit of all living organisms? b. List the functions of nerve cells. | 3 |
| (3) | a.What are antibiotics? b.List two precautions taken while taking antibiotics. | 3 |
| (4) | a.The distance between the object and its image formed by a plane mirror appears to be 28cm.What is the distance between the mirror and the object? b. State any three characteristics of the image formed. | 3 |
| (5) | 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 |
| (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 10 oscillations in 20 seconds. What is the time period? b.Saurav heard sound of thunderbolt 6 second after he saw flash of lightning. How far is he from the place where lightning occurs?(Speed of sound =330m/s) 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? | 3 |
| (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 is a glass rod charged positively when rubbed with silk?
- (10) a.Differentiate between menarche and menopause. 3
b.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 internal and external fertilization in animals.(1 point each) 3
b. Draw a diagram showing sex determination in human beings.
- Q.NO **SECTION 'C' – ('5' MARKS EACH) – TOTAL – 30 MARKS** Marks
- (12) 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)
- (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 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.
- (15) a.State the laws of reflection. 5
b.Draw a diagram to show laws of reflection.
c.The angle between the incident ray and the reflected ray is 60° .What is the value of angle of incidence.
- (16) a. State three differences between plant cells and animal cells. 5
b. What are plastids?
c. What is the function of plastid?
- (17) a.Draw a neat diagram showing electrolysis of water and label the diagram. 5
b. What are electrodes? Name two elements that can be used as electrodes.
OR
a.Draw a neat diagram showing electroplating a spoon with copper and label it.
b. Why chromium is used in electroplating?

End of the question paper.