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**INDIAN SCHOOL MUSCAT  
MIDDLE SECTION  
ANNUAL EXAMINATION 2018-19**



**SUBJECT – SCIENCE**

**Code: MZSC12**

**CLASS: VIII**

**Time Allotted: 2 ½ Hrs.**

**10.03.2019**

**Max .Marks: 80**

**General Instructions.**

1. The question paper comprises of **two Sections, A and B**. You have to attempt both the sections.
2. **All** questions are **compulsory**.
3. **All answers should be written in the answer sheet provided.**

**SECTION A**

**1.Fill in the blanks**

- a. The green house gas produced when fuels burn is ----- 1
- b. If the offspring is an exact copy of the parent it must be -----reproduction. 1
- c. Conversion of sugar into alcohol by the yeast is called ----- 1
- d. Any substance that causes pollution is a ----- 1
- e. The period during the adolescence when reproductive maturity is achieved is known as--- 1  
-----
- f. The frequency of vibration is measured in a unit called ----- 1

**2. Choose the correct answer**

- a. The thread like structures in the nucleus is known as ----- 1  
a) nucleolus    b) nucleoplasm    c) chromosomes    d) none of these
- b. The ignition temperature of a few substances are given F -120<sup>0</sup> and X - 150<sup>0</sup> Y - 70<sup>0</sup> 1  
Z - 110<sup>0</sup>. Which one of them can be termed inflammable?  
a) F                      b) Y                      c) Z                      d) X
- c. If the angle of incidence increases by 5<sup>0</sup> the angle of reflection increases by 1  
a)5<sup>0</sup>                      b) 10<sup>0</sup>                      c) 2.5<sup>0</sup>                      d) none of these
- d. The micro organism that helps in the formation of curd from the milk is 1  
a)Hay bacillus b) firmus bacillus    c) lysine bacillus    d) lacto bacillus
- e. This is a non electrolyte 1  
a)Dilute acid    b) dilute base                      c) warm salt solution    d) cold vegetable oil
- f. The male gamete is 1  
a)Ovum                      b) sperm                      c) gamete                      d) none of these.

### **3. State TRUE or FALSE**

- a. Calorific value is an important criterion for selecting a fuel. 1
- b. Zygote develops from embryo. 1
- c. The major components of air are non metals 1
- d. Organic substances (substances derived from plants and animals) do not cause pollution of water 1
- e. The body part that responds to the hormone is referred to as the target site. 1
- f. The loudness of the sound increases when the distance between the mean position and the extreme position of a vibrating body decreases. 1

### **4. Give ONE word / term for the following**

- a. A substance that crumbles when hammered and produces a dull low pitch sound when tapped can be called this. 1
- b. The animals that give birth to their young ones. 1
- c. Combustion taking place without heating 1
- d. The electrode where hydrogen evolves during the electrolysis of water. 1
- e. The effect of frequency on human ear. 1
- f. The zone on the retina where there are no sensory cells. 1
- g. The glands that secrete hormones. 1

### **SECTION B**

#### **Questions 5 to 19 carry 1 mark each**

- 5 How does the population explosion affect pollution levels? 1
- 6 What are organelles? 1
- 7 Give any one advantage of LPG. 1
- 8 How does the excessive growth of algae (algal bloom) reduce the oxygen levels in water? 1
- 9 Sumit went to an eye specialist with a complaint that he has to keep the book very close to read. What is the defect of his eye? 1
- 10 A doctor prescribed streptomycin for your friend. What do you understand from this? 1
- 11 What is the function of the ear drum? 1
- 12 A metal X has to be electroplated on another metal Y. Which of these metals should be connected to the negative terminal of the battery? 1
- 13 An explosion can be seen in outer space but it cannot be heard. Why? 1
- 14 What is metamorphosis? 1
- 15 The fire caused by a burning metal is called type D fire. What are the substances produced when the following metals burn? a) sodium b) titanium. 1
- 16 What is the major difference in the fertilization taking place in man and frog? 1
- 17 After rubbing two objects A and B the object A is found to have positive charge. What will be the charge on B? B is found to repel a charged object C. What is the charge on C? 1
- 18 We cannot hear the sound of a metal object vibrating 16 times in one second. Account for this. 1
- 19 Copper cannot displace zinc from zinc chloride. Why? 1

**Questions 20 to 29 carry 2 marks each**

- |    |   |   |
|----|---|---|
|    |   | 2 |
| 20 | What are plastids? Distinguish between chloroplast and chlorophyll.   |   |
| 21 | Give reason for the following. i) Wind can extinguish a candle flame. ii) Carbon dioxide is used for extinguishing fire.  | 2 |
| 22 | Give any two differences between typhoid and chicken pox (other than its symptoms)  | 2 |
| 23 | What is the role of the following hormones? a) testosterone b) insulin  | 2 |
| 24 | Why do the metal foils of the electroscope move apart when a charged object is brought in contact with the metal disc/rod? What will happen to the metal foils when the electroscope is earthed? Why? | 2 |
| 25 | Mention two ways to reduce noise pollution in class.  | 2 |
| 26 | What causes the charging of clouds? Why does discharge of electricity take place through air during lightning even though the air is an insulator under normal circumstances?                         | 2 |
| 27 | Give two differences between a metallic conductor and an electrolyte.   | 2 |
| 28 | Give two reasons why gold is used for making ornaments.   | 2 |
| 29 | Distinguish between menarche and menopause. What is menstruation?   | 2 |

**Questions 30 to 34 carry 3 marks each**

- |    |  |   |
|----|--|---|
|    |  | 3 |
| 30 | Write three differences between a plant cell and animal cell.  |   |
| 31 | Draw a neat diagram of the arrangement for the electrolysis of water. Label cathode, anode and the electrolyte. Name a substance that can be added to water to increase its conductivity.  | 3 |
| 32 | a) Name a leguminous plant.<br>b) What is the nature of the relationship between leguminous plants and Rhizobium bacteria?<br>c) Rhizobium bacteria play a pivotal role in the supply of proteins to animals and plants. Justify this statement. | 3 |
| 33 | A substance X was burnt and the product obtained was dissolved in water. The solution thus obtained turned red litmus blue. What can you conclude about the nature of the substance X? Justify your answer.                                      | 3 |
| 34 | Write any three precautions to be taken during lightning when you are in the open field.   | 3 |

**Questions 35 carries 5 marks**

- |    |   |   |
|----|---|---|
|    |   | 5 |
| 35 | i) Draw a neat diagram of the human eye showing its parts and label the following parts.<br>a) lens b) iris c) retina d) ciliary muscle<br><br>ii) What is the function of the pupil?<br><br>iii) Staring at a very bright source of light like sun is not good for your eyes. Why? |   |

End of the question paper.