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**INDIAN SCHOOL MUSCAT
MIDDLE SECTION
FINAL EXAMINATION 2017-18**



**SCIENCE
ANSWER KEY**

Code: MZSC08

CLASS: VIII

Time Allotted: 2 ½ Hrs.

11.03.2018

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. | Electrostatic Force | 1 |
| b. | Plastids/ chromoplast | 1 |
| c. | Ignition temperature | 1 |
| d. | Air Column/ air | 1 |
| e. | Menarche | 1 |
| f. | External | 1 |

2. Choose the correct answer

- | | | |
|----|----------------------|---|
| a. | Object does not move | 1 |
| b. | petrol | 1 |
| c. | iris | 1 |
| d. | antibody | 1 |
| e. | All of these | 1 |
| f. | embryo | 1 |

3. State TRUE or FALSE

- | | | |
|----|---|---|
| a. | T | 1 |
| b. | F | 1 |
| c. | F | 1 |
| d. | F | 1 |
| e. | F | 1 |
| f. | T | 1 |

4. Give ONE word for the following

- | | | |
|----|-------------------------|---|
| a. | Non contact | 1 |
| b. | Combustion | 1 |
| c. | Braille | 1 |
| d. | Vibration | 1 |
| e. | Tin | 1 |
| f. | Pituitary /ductless | 1 |
| g. | Zygote / fertilized egg | 1 |

SECTION B

Questions 5 to 19 carry 1 mark each

- | | | |
|----|--|----------------------------|
| 5 | It will be opposite to the motion of the body | 1 |
| 6 | a) amoeba b) paramoecium | $\frac{1}{2}, \frac{1}{2}$ |
| 7 | C F- muscular or friction .N C-magnetic, electrostatic or gravitational | $\frac{1}{2}, \frac{1}{2}$ |
| 8 | malleability | 1 |
| 9 | It produces carbon monoxide which is poisonous | $\frac{1}{2}, \frac{1}{2}$ |
| 10 | Vocal cords in women are shorter than that of the vocal cords in men. | 1 |
| 11 | Smallest –bacteria, largest-egg of an ostrich | $\frac{1}{2}, \frac{1}{2}$ |
| 12 | Kilojoule /kilogram, joule/ kilogram or joule/gram | 1 |
| 13 | Viruses can reproduce only inside the cells of a host organism | 1 |
| 14 | Their frequency is higher than 20000 Hz and so ,cannot be heard by us | 1 |
| 15 | This is because an electric current produces a magnetic effect /the solution is a conductor | 1 |
| 16 | B- positive C- negative | $\frac{1}{2}, \frac{1}{2}$ |
| 17 | Erect, virtual, lateral inversion, same size, distance of image from the mirror is same as the distance of the object from the mirror, (any 2) | $\frac{1}{2}, \frac{1}{2}$ |
| 18 | It vibrates and sends the vibrations to the inner ear | $\frac{1}{2}, \frac{1}{2}$ |
| 19 | Type of asexual reproduction in which an animal reproduces by dividing into two individuals | 1 |

Questions 20 to 29 carry 2 marks each

- | | | |
|----|---|--|
| 20 | It is a device used to protect buildings from the effect of lightning
Principle-The rod provides an easy path for the transfer of electric charge to the ground. | 1,1 |
| 21 | P- non metal, Oxide- acidic
Sodium dioxide + water ----->sodium hydroxide | $\frac{1}{2}, \frac{1}{2}$
1 |
| 22 | a)nucleus
b)cell /cytoplasm
c) chromosomes, carry genes. | $\frac{1}{2}$
$\frac{1}{2}$
$\frac{1}{2}, \frac{1}{2}$ |
| 23 | a)To cut off the contact with oxygen which supports burning
b)It does not reach its ignition temperature | 1
1 |
| 24 | Do not use wired phone, unplug electrical appliances, do not take bath (any two) | 1,1 |
| 25 | a)Positive electrode- oxygen, negative electrode- hydrogen
b)Electrode- carbon
c) Distilled water does not conduct electricity | $\frac{1}{2}, \frac{1}{2}$
$\frac{1}{2}$
$\frac{1}{2}$ |

- 26 a) Atmospheric pressure acting downward is very high as there is vacuum inside the sucker 1
b) Pressure increases with depth of liquid 1
- 27 a) The Y chromosome which determines the sex of the baby to be a boy is present only in sperm cells. 1
b) The activity of the sweat and sebaceous gland is more during this period. 1
- 28 By Rhizobium/blue green algae and during lightning 1,1
- 29 a) 3 1
b) Greater the frequency, higher the pitch 1

Questions 30 to 34 carry 3 marks each

- 30 a) Pathogens-disease causing microorganisms 1
Carriers- insects and animals that are carriers of pathogens 1
b) Diseases that spread from an infected person to an healthy person. 1
c) Food poisoning 1
- 31 Diagram 1
Labeling of cell wall, vacuole, chloroplast and nucleus. ½ each
- 32 a) negative terminal ½
b) salt solution of copper/copper sulphate solution ½
c) The process of depositing a layer of any desired metal on another material by means of electricity. 1
d) chrome plating, making jewellery, tin cans, galvanization (any one) 1
- 33 Magnesium replaces Copper as it is more reactive than Copper 1
Magnesium + Copper sulphate -----> Magnesium Sulphate + Copper 1
- Silver does not replace Copper as it is less reactive than Copper and so no reaction takes place. ½, ½
- 34 a) It is a device used to detect if a body is charged or not. 1
b) Positive charge 1
c) Because of Earthing 1

Questions 35 carries 5 marks

- 35 a) A-pupil, B –Optic Nerve ½, ½
b) Lens focuses the image on the retina. 1
c) The spot at the junction of optic nerve and retina where there are no sensory cells. 1
d) Cataract, The eye lens become cloudy 1, 1