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



SCIENCE

Code : MYSC04/10

CLASS: VII

Time Allotted: 2 ½ Hrs.

04.03.2018

Max .Marks: 80

MARKING SCHEME WITH ANSWER KEY

SECTION A

1.Fill in the blanks

- a. Diaphragm
- b. Fleece/ Wool
- c. Lichens
- d. Virtual
- e. Ovule
- f. Hurricanes

2. Choose the correct answer

- a. H.C.Oersted
- b. Moves downwards
- c. Ruby
- d. Concave mirror
- e. Heart beat
- f. Slaked lime

3. State TRUE or FALSE

- a. True
- b. True
- c. False
- d. False
- e. True
- f. False

4. Give ONE word for the following

- a. Anthrax
- b. Tongue
- c. Convex lens
- d. Indicators
- e. Fertilization

- f. Transpiration
- g. Eye of the storm

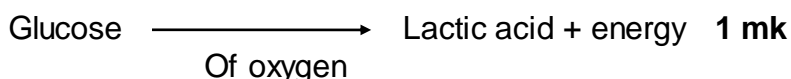
SECTION B

Questions 5 to 19 carry 1 mark each

- 5 Muscle cells require more energy and hence more oxygen to break down food **1mk**
- 6 Rectilinear propagation of light / Light travels in a straight line **1mk**
- 7 There is no clotting of blood **1mk**
- 8 On burning natural silk smells of burnt hair and artificial silk smells of burnt paper **1mk**
- 9 Helps in absorption of water and excess salt from undigested food **1mk**
- 10 Acid produced in our teeth by bacteria are neutralized by the toothpaste a base thereby preventing tooth decay **1mk** , (Colour change with indicator $\frac{1}{2}$ **mk**)
- 11 Cooling effect to plants, Uptake of water from the roots, Removes excess water from plants (**any one**)**1mk**
- 12 Both have the same time period $\frac{1}{2}$ **mk** Time period does not depend on the mass of the bob $\frac{1}{2}$ **mk**
- 13 The size of the image will be the same as the size of the object in both the mirrors.**1mk**
- 14 Wire **X** $\frac{1}{2}$ **mk** It readily melts when current exceeds a certain limit $\frac{1}{2}$ **mk**
- 15 Ovary forms the fruit $\frac{1}{2}$ **mk** Ovules form the seed $\frac{1}{2}$ **mk**.
- 16 Turmeric indicator changes to red in basic solutions (soap) **1mk**
- 17 Wind currents are generated due to uneven heating of the earth(between equator and poles, Difference in pressure **1mk**
- 18 Unisexual $\frac{1}{2}$ **mk** Bisexual flowers $\frac{1}{2}$ **mk**
- 19 Solutions which do not change colour of either red or blue litmus / solutions which are neither acidic of basic.**1mk**

Questions 20 to 29 carry 2 marks each

- 20 a) A- Oesophagus/ Foodpipe $\frac{1}{2}$ **mk** B- Small Intestine $\frac{1}{2}$ **mk**
 b) C – Bile $\frac{1}{2}$ **mk** Fats $\frac{1}{2}$ **mk**
- 21 Inhalation – Diaphragm moves down and lungs expand $\frac{1}{2} + \frac{1}{2}$ **mk**
 Exhalation - Diaphragm moves back and lung contract $\frac{1}{2} + \frac{1}{2}$ **mk**
- 22 A current carrying coil of insulated wire wrapped around a piece of iron is called an electromagnet. **1 mk**
 Electric bell, Eye doctors use it to remove materials from eye, To separate magnetic material from junk, children toys (**any two**)**1mk**
- 23a. To prevent mixing of Oxygenated and Deoxygenated blood **1mk**
 b. Prevents back flow of blood, one direction **1mk**
- 24 A very low pressure system with high speed winds revolving around is called cyclone. **1mk**
 Satellites and Radars **1mk**
- 25 Muscles respire anaerobically, Accumulation of Lactic acid **1 mk**
 In the absence



- 26 Take less time to grow, Bear flowers and fruits earlier than those produced by seeds, New plants are exact copies of the parent plant (**any two**) **2mks**
- 27 a) The process of removing the fleece along with a thin layer of skin of the sheep is called shearing **1mk**
b) The process of taking out threads from the cocoon of silk moth for use as silk is called Reeling **1mk**
- 28 a. Can be used only during daytime $\frac{1}{2}$ **mk**
b. Time Period = Time taken/ No of Oscillation $\frac{1}{2}$ **mk** $15/30 = 0.5$ s ($\frac{1}{2}$ **mk** + $\frac{1}{2}$ **mk**)
- 29 a. By adding a suitable base $\frac{1}{2}$ **mk**
b. Neutralization reaction $\frac{1}{2}$ **mk**
c. Sodium Hydroxide + Hydrochloric acid \longrightarrow Sodium Chloride + Water + Heat (any correct equation) **1mk**

Questions 30 to 34 carry 3 marks each

- 30a) Switch in off position/ It's an open circuit $\frac{1}{2}$ **mk**
b) By closing the circuit/ Switch in on position $\frac{1}{2}$ **mk**
c) Filament becomes hot and glow when current flows through it **1mk**
d) Heating effect of electric current **1mk**
- 31a) **A** – Spore formation $\frac{1}{2}$ **mk** **B** – Budding $\frac{1}{2}$ **mk**
b) **A** – Fungus/ Bread Mould/fern $\frac{1}{2}$ **mk** **B** – Yeast $\frac{1}{2}$ **mk**
c) Asexual- * Single parent Sexual- * Both Parent (**any one point**) **1 mk**
* No Reproductive parts involved * Reproductive parts are involved
* Identical offspring's * Not identical offspring's
* Asexual * Sexual
- 32 a) Movement of the organism **1 mk** and Capturing food **1mk**
b) The enzyme in the saliva breakdown starch into sugars **1mk**
- 33a. **A**- Concave mirror $\frac{1}{2}$ **mk** **B**- Convex mirror. $\frac{1}{2}$ **mk**
b. Concave mirror $\frac{1}{2}$ **mk**
c. **A** – Magnified image , Real image **B**- Diminished image, Virtual image (**any one**) **1 mk**
d. **A**– Rear view mirrors in cars, street light reflectors (**any one**) $\frac{1}{2}$ **mk**
- 34 Correct diagram **1½mk** any three correct labeling **1½mk**

Questions 35 carries 5 marks

- 35a) 20 m $\frac{1}{2}$ **mk**
b) Bicycle at rest/ no motion $\frac{1}{2}$ **mk**
c) 10 s $\frac{1}{2}$ **mk**
d) Speed = Distance/ Time $\frac{1}{2}$ **mk** $10/25 \frac{1}{2}$ **mk** = 0.4 m/s ($\frac{1}{2}$ + $\frac{1}{2}$ **mk**)
e) Non Uniform motion. $\frac{1}{2}$ **mk** Equal distances not covered in equal intervals of time/ Graph not a straight line, Speed not constant **1mk**