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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

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 -----forms floor of the chest activity. | 1 |
| b. | A sheep body has a thick coat of hair called ----- | 1 |
| c. | Litmus is extracted from ----- | 1 |
| d. | A ----- image cannot be formed on a screen. | 1 |
| e. | The ----- forms the seed. | 1 |
| f. | Cyclones are called ----- in North America. | 1 |

2. Choose the correct answer

- | | | |
|----|---|---|
| a. | The magnetic effect of a current was first observed by -----
(a) Faraday (b) H.C.Oersted (c) Ohm (d)Joule | 1 |
| b. | During exhalation, the ribs -----
(a) Moves outwards (b) moves upwards (c) moves downwards (d) do not move | 1 |
| c. | Which of the following is not a variety of silk?
(a). Tassar (b). Mooga (c). Ruby (d). Kosa | 1 |
| d. | Which of the following can form a real image?
(a) Plane mirror (b) concave lens (c) concave mirror (d) convex mirror | 1 |
| e. | The rhythmic contraction and relaxation of the heart is called -----
(a) Pulse (b) heart rate (c) heart beat (d) pulse rate | 1 |
| f. | Calcium hydroxide is also called -----
(a) Slaked lime (b) quick lime (c) milk of magnesia (d) none of these | 1 |

3. State TRUE or FALSE

- | | | |
|----|--|---|
| a. | In cockroaches, air enters the body through spiracles. | 1 |
| b. | Any polished or a shining surface acts as a mirror. | 1 |
| c. | Milk of Magnesia turns blue litmus red. | 1 |
| d. | In a battery the positive terminal of one cell is connected to the positive terminal of the next cell. | 1 |
| e. | Bile secreted by the liver mainly helps in the breakdown of fats. | 1 |

- f. The basic unit of speed is km/ hr. 1
- 4. Give ONE word for the following**
- a. The bacterium which causes Sorter's disease. 1
- b. The fleshy muscular organ in the mouth. 1
- c. A lens that is thicker at the center than at the edges. 1
- d. Substances that change colour in the presence of an acid or a base. 1
- e. The process of fusion of male and female gametes. 1
- f. The process by which water is lost from the stomata of leaves. 1
- g. The centre of a Cyclone. 1

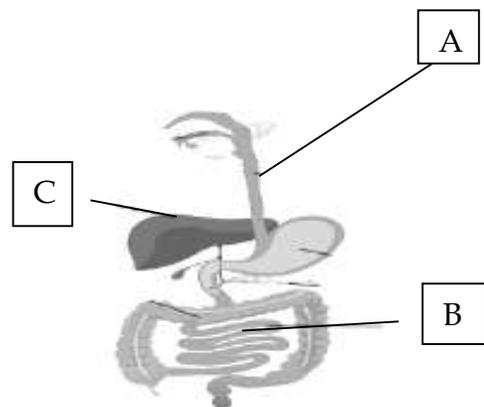
SECTION B

Questions 5 to 19 carry 1 mark each

5. Why does the breathing rate of an athlete increase during a heavy exercise? 1
6. State the principle behind the formation of shadows. 1
7. What happens when there are no platelets in the blood? 1
8. How can we differentiate natural silk from artificial silk? 1
9. Digestion does not occur in the large intestine, yet its role is important. Justify 1
10. Toothpaste is usually basic in nature. Give reason. 1
11. How is transpiration useful to plant. **(any one point)** 1
12. Two Pendulums **A** and **B** each have a length of 15cm. The bob of pendulum **A** weighs 20g and that of **B** weighs 22g. Which pendulum will have greater time period? Give reason. 1
13. Anju was given a large plane mirror and Meera was given a small plane mirror by their Lab teacher. They were asked to compare the image size of the same object formed by the two mirrors. What will they conclude about the size of the image? 1
14. Wire **X** has lower melting point than wire **Y**. Which wire would you use to make a fuse. Give reason. 1
15. What parts of a flower changes into a fruit and seed? 1
16. Why does a yellow curry stain on a white shirt turn red when it is washed with soap? 1
17. How are wind currents generated? 1
18. Classify a flower on the basis of their reproductive parts. 1
19. What are neutral solutions? 1

Questions 20 to 29 carry 2 marks each

- 20 a) In the given diagram, identify the digestive organs labelled **A** & **B**.
- b) State the digestive juice secreted by the organ labelled **C**. What type of food component is digested by the digestive juice of organ **C**?



21. What happens to the **a)** diaphragm and **b)** lungs ,during Inhalation and Exhalation 2
22. What are electromagnets? Give any two uses of it. 2
- 23 a. The right side of the heart is separated from the left side of the heart by a partition wall. Why? 2
- b. Why are veins provided with valves? 2
24. What are cyclones? State any two ways of predicting a cyclone. 2
25. Sachin came back home after a cricket match. He had muscle cramps, so he took hot water bath and felt relaxed. What could be the reason for the cramps? Write the word equation for the reaction occurring in his muscles. 2
26. State any two advantages of vegetative reproduction. 2
27. Define **a)** shearing **b)** Reeling 2
- 28 a. What is the limitation of the sundial as a time measuring device? 2
- b. Time taken to complete 30 oscillations is 15 sec. What is its time period?(**show steps**) 2
29. Ground water in a particular region has a sour taste. 2
- a. How can we change the nature of the soil?
- b. Name the type of chemical reaction that helps to change the nature of the soil
- c. Write any example to represent the above type of chemical reaction.

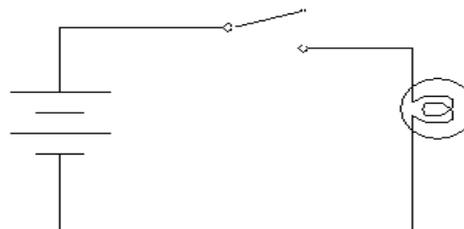
Questions 30 to 34 carry 3 marks each

- 30 a) Why does the bulb not glow in the circuit shown in the picture? 3

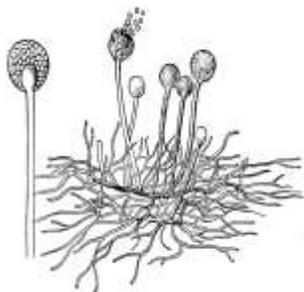
b) How can it be made to glow?

c) What is the use of the filament in the electric bulb?

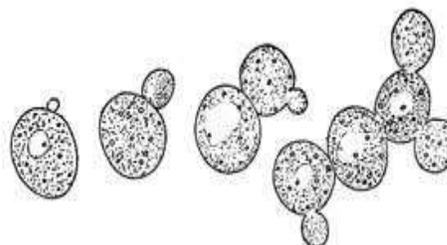
d) What is the principle used in the glowing of the Electric bulb?



31.



A



B

3

- a) Identify the type of Asexual reproduction seen in figure **A & B**.
- b) Give one example each of a plant showing the above types of reproduction.
- c) How is this type of reproduction different from plants that produce seeds?

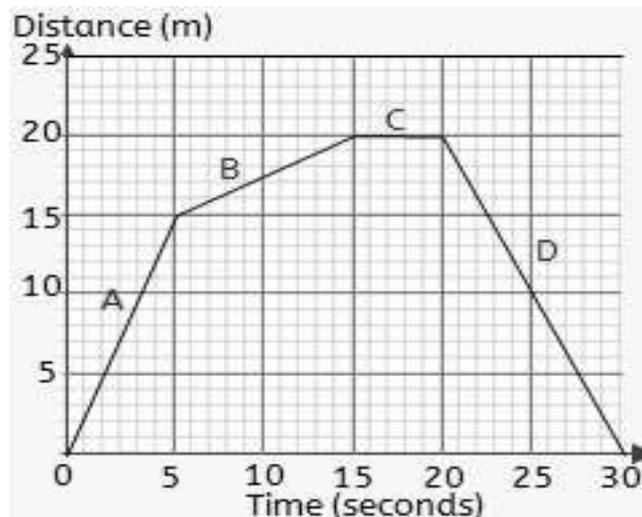
- 32 a) What are the functions of Pseudopodia in Amoeba? 3
 b) If a piece of bread is chewed for some time without swallowing, it tastes sweet. Why?
33. Observe the picture showing images formed by mirrors and answer the questions. 3



- Identify the mirrors **A** & **B** shown in picture.
 - Which of the above is a converging mirror?
 - State one difference between the images formed by **A** & **B**.
 - Give one use of mirror **B**.
34. Draw a neat labelled diagram of the Human excretory system. 3

Questions 35 carries 5 marks

35. Study the Distance Time graph of the motion of a bicycle and answer the questions below: 5



- How far did the bicycle move in 15 sec?
- What does the graph at **C** indicate about the motion of the bicycle?
- How much time has the bicycle taken to cover the part of the journey represented by **D**?
- Calculate the speed of the bicycle at 25 sec? (**show necessary steps**)
- What is the nature of motion of the bicycle from **A** to **C**? Give reason.

