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**INDIAN SCHOOL MUSCAT
MIDDLE SECTION
ANNUAL EXAMINATION 2019 – 20
SUBJECT – SCIENCE – SET A**



Code:MYSC09
Time Allotted: 2 ½ hrs
Max .Marks: 80

CLASS 7
02.03.2020

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)	Organisms that can respire in the presence of oxygen are called a. aerobes b. anaerobes c. pathogens d. microbes	1
(b)	An electric bell works on the _____ effect of electricity a. lighting b. magnetic c. heating d. electric	1
(c)	_____ wool is most common in Tibet and Ladakh. a. camel b. sheep c. alpaca d. yak	1
(d)	The digestion of which nutrient starts in the mouth a. vitamin b. protein c. carbohydrate d. fat	1
(e)	An image that can be obtained on a screen is called a. virtual b. real c. enlarged d. shadow	1
(f)	_____ is the process by which rain water seeps into the ground, a. evaporation b. infiltration c. collection d. precipitation	1
(g)	A network of big and small pipes that carry sewage forms a _____. a. manhole b. sewer c. sewerage d. drain	1
(h)	The fluid part of the blood is called a. W.B.C b. R.B.C c. plasma d. platelet	1
(i)	_____ is an instrument that measures the distance moved by a vehicle. a. speedometer b. anemometer c. odometer d. thermometer	1
(j)	This seed has hooks on it to attach itself to the body of animals a. balsam b. maple c. coconut d. xanthium	1
(k)	How are muscle cramps caused?	1
(l)	Which organ helps in the exchange of gases within the body of a grasshopper?	1

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| (m) | Why do we use a coil of wire instead of a straight wire as an element in an electric heater? | 1 |
| (n) | Name two natural fibres made of protein. | 1 |
| (o) | Which property of a convex lens is used in a magnifying glass? | 1 |
| (p) | What is an aquifer? | 1 |
| (q) | Why shouldn't cooking oil and fats be thrown down the drain? | 1 |
| (r) | What causes monsoon winds to blow in the south western part of India during summer? | 1 |
| (s) | Why do veins have valves? | 1 |
| (t) | Convert 36 Km/hr to m/s. | 1 |

Q.NO	<u>SECTION 'B' – ('3' MARKS EACH) – TOTAL – 30 MARKS</u>	Marks
(2)	a. Which organism is added to grape juice to change it into wine? b. Why is this organism added? Or a. Where do the processes of breathing and respiration occur? b. Describe briefly how the process of inhalation takes place?	3
(3)	a. Which is the most common silk moth? b. Write two reasons why this silk is preferred. c. What is reeling of silk?	3
(4)	a. What is the difference between a convex mirror and concave mirror?(one difference) b. Which mirror is used as rear view mirrors in cars. State the reason. c. Give two uses of concave mirror.	3
(5)	a. State any two ways by which you can prevent wastage of water at home. b. Briefly explain how farmers can conserve water in their farms?	3
(6)	a. How is sludge decomposed ? b. What is aeration? How does it help?	3
(7)	a. What is a cyclone? b. Why are there more chances of roofs of houses getting blown off whenever there is a storm? c. Give two safety measures that can be taken in case of a cyclone.	3
(8)	a. Why does wind make leaves flutter? b. What is direction in which wind will move? c. A flag mounted on a flag post on sea coast flutters in the direction of the sea. At what time does this happen, in the afternoon or at midnight? Why?.	3

- (9) a. Why is the blood red in colour? 3
 b. Which cells are the carriers of this red pigment in blood?
 c. What is the function of this red pigment?

Or

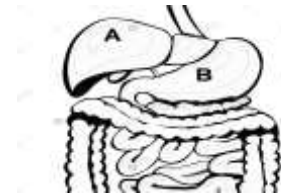
- a. Which tissue makes up the transporting vessels in a plant?
 b. Name the two types of vessels.
 c. Write the difference in their functions?
- (10) a. What are the two types of motion associated with a simple pendulum? 3
 b. What will happen to the time period if you increase the length of the pendulum?
 c. A simple pendulum takes 38s to complete 20 oscillations. Calculate the time period of the pendulum?
- (11) a. Name the male and female reproductive part of a flower. 3
 b. Draw and label the male reproductive part of a flower.
 c. What type of flower is mustard in terms of sexual character? Justify your answer.

SECTION 'C' – ('5' MARKS EACH) – TOTAL – 30 MARKS

Q.NO Marks

- (12) a. Draw the circuit diagram of an open circuit using electric bulb, battery, conducting wire and switch. 5
 b. Which safety device can protect electrical circuits from possible fires?
 c. Can we use a thick wire for the above safety device. State the reason why.
 d. How can you make a magnet out of a current carrying coil of wire in a circuit?

- (13) a. Identify the organs labelled A and B in fig1 5
 b. How does the organ A help in digestion?
 c. Which is the acid secreted by Organ B? Write its two functions.
 d. How is the lining of organ B protected from this acid?



Or

- a. Which organism is shown in fig 2.
 b. Name the structures A and B.
 c. What are the functions of A.
 d. How does structure B help in the digestion process?

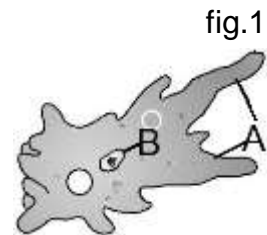
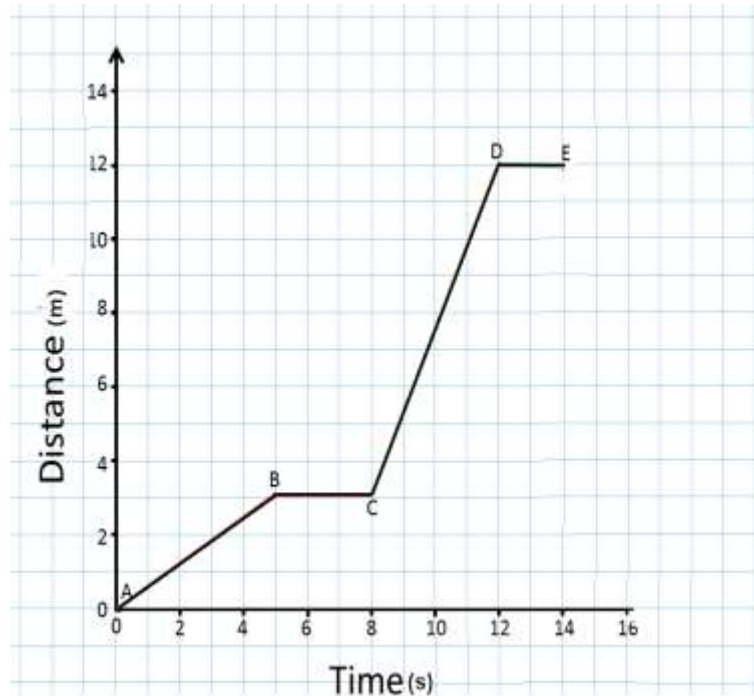


fig 2

- (14) a. Which property of light helps to form images on smooth, shiny surfaces? 5
 b. State two properties of image formed by a plane mirror?
 c. Write out the image of the word '**WOW**' as seen in a plane mirror. What is this property called?
 d. A girl is standing at a distance of 30cm away from a plane mirror, what will be the distance of her image from the mirror?

- (15) a. Draw the human excretory system and label the kidneys, ureter, urinary bladder and urethra. 5
 b. Why do we see white patches on our clothes when we sweat?

- (16) Observe the distance-time graph of an object travelling along a straight line and answer the questions given below.



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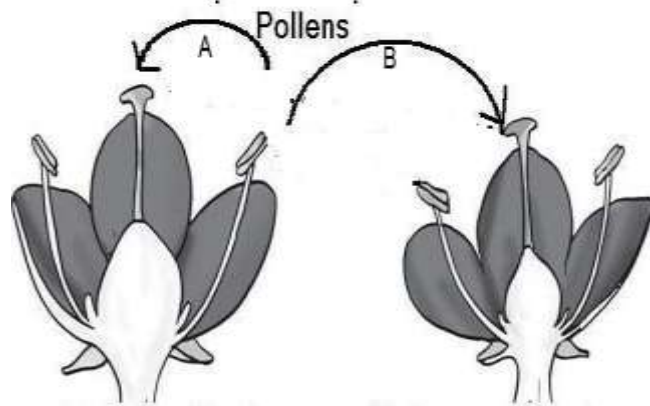
- a. Calculate the speed of the object from C to D?
 b. What does B to C and D to E indicate?
 c. What is the distance travelled by the object in 13 sec.
 d. Where is the body travelling with more speed, from A to B or C to D. (Do not calculate)
 e. What is the type of motion indicated in the graph.

- (17) a. What does process A and B indicate. 5

- b. Differentiate between A and B. (one point)

- c. Name and define the process that takes place after a pollen grain germinates?

- c. What does the ovary and ovule develop into?



Or

- a. How do the following reproduce 1) spirogyra 2) yeast 3) potato 4) rose plant.

- b. What kind of reproduction is this? Why is it called so?

- c. What is the advantage of this kind of reproduction? (any 2 points)

- d. How do spores survive unfavorable conditions?

End of the question paper.