NAME ROLL NO.



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



Code:MYSC09

Time Allotted: 2 1/2 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	SECTION 'A' - ('1' MARK EACH) - TOTAL - 20 MARKS	Marks
(a)	Muscle cramps are caused due to the accumulation of in muscles. a. lactic acid b. acetic acid c. hydrochloric acid d. citric acid	1
(b)	This appliance does not work using the magnetic effect of electricity. a. electric motor b. electric kettle c. electric bell d. telephone	1
(c)	Pick out the fibre that is made of protein a. cotton b. jute c. coir d. wool	1
(d)	The digestion of which nutrient starts in the stomach a. vitamin b. protein c. carbohydrate d. fat	1
(e)	An image that can't be obtained on a screen is called a. virtual b. real c. enlarged d. shadow	1
(f)	The upper limit of groundwater at a place a. aquifer b. infiltration c. water table d. tube well	1
(g)	Chemicals that can be used to kill germs in water a. chlorine, oxygen b. ozone, chlorine c. bromine, chlorine d. fluorine, ozone	1
(h)	The cells of the blood that helps in clotting a. W.B.C b. R.B.C c. plasma d. platelet	1
(i)	is an instrument that measures the speed of a vehicle. a. speedometer b. anemometer c. odometer d. thermometer	1
(j)	This plant reproduces through its leaves a. bryophyllum b. fern c. croton d. balsam	1
(k)	What are the products of aerobic respiration?	1

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(I)	Which organ helps in the exchange of gases in a shark?	1
(m)	Why do we use a coil of wire rather than a straight wire as an element in an electric	1
(n)	heater? Why is scouring done in the processing of wool?	1
(o)	Which property of a convex lens is used in a magnifying glass?	1
(p)	What is potable water?	1
(q)	Chemicals such as paints, medicines and insecticides should not be thrown down the drains. Give reason. What are thunderstorms?	1
(r)		1
(s)	Which blood vessel takes deoxygenated blood from the heart to the lungs? Convert 90 Km/hr to m/s.	1 1
(t)		•
Q.NO	SECTION 'B' - ('3' MARKS EACH) - TOTAL - 30 MARKS	Marks
(2)	a. Which organism is added to grape juice to change it into wine?b. Why is this organism added?Or	3
	a. Where do the processes of breathing and respiration occur? b. Describe briefly how the process of inhalation takes place?	
(3)	a. What is selective breeding?b. Which are the two types of fibres that form the fleece of sheep?c. Why shearing does not hurt the sheep?	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. What is rain water harvesting?	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 colour of blood red? 3 b. Which cells are the carriers of this red pigment in blood? c. What is the function of this red pigment? a. Which tissue makes up the transporting vessels in a plant? b. Write two differences between the two main types of vessels. c. Explain how trees are able to pull water to great heights? a. What are the two types of motion associated with a simple pendulum? 3 (10)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 5 (12)a. Draw a circuit diagram of an open circuit using electric bulb, battery, conducting wire and switch. 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? 5 (13)a. Identify the organs labelled A and B in fig1 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? Orfig.1 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)5 a. Which property of light forms images on smooth, shiny surfaces? 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?

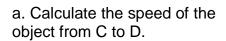
d. A girl is standing at a distance of 30cm away from a plane mirror, what will be the

distance of her image from the mirror?

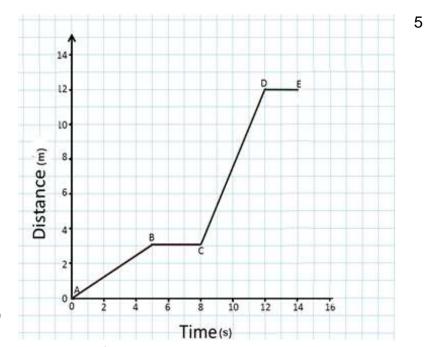
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b. Why do we see white patches on our clothes when we sweat?

Observe the distance-time graph of an object moving along a straight line and answer the questions given below.



- b. What does B to C and D to E indicate?
- c. What is the distance travelled by the object in 13 seconds?
- d. Where is the body travelling with more speed A to B or C to D



Pollens

- e. What type of motion is indicated in the graph?
- (17) a. What does process A and B indicate.
 - b. Differentiate between A and B.(one point)
 - c. Name and define the process after a pollen grain germinates?
 - c. What does the ovary and ovule develop into?





- 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 unfavourable conditions?

End of the question paper.

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