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**INDIAN SCHOOL MUSCAT
MIDDLE SECTION
HALF YEARLY EXAMINATION 2019 – 20
SUBJECT – SCIENCE**



Code: MZSC15

Time Allotted: 2 ½ hrs

Max .Marks: 80

CLASS:8
25.09.2019

General Instructions.

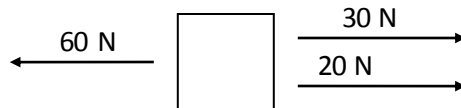
- The question paper comprises of three sections **A ,B& C**. You have to **attempt all** the sections.
- All the questions are **compulsory**.
- All the answers should be written in the **answer sheet** provided.

Q.NO1

SECTION ‘A’ – (‘1’ MARK EACH) – TOTAL – 20 MARKS

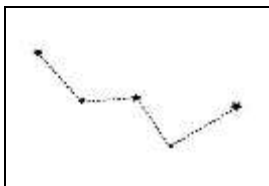
Marks

- (a) What is the net force on the box shown below?



- | | | | |
|-----|--|--|---|
| | <p>i) 10 N to the left</p> <p>ii) 10 N to the right</p> <p>iii) 60 N to the left</p> <p>iv) 50 N to the right</p> | | 1 |
| (b) | Which of the following parts of a cell listed below is common to a plant cell, animal cell and bacteria? | | |
| | <p>i) Cell wall</p> <p>ii) Nucleus</p> <p>iii) Cell membrane</p> <p>iv) Chloroplast</p> | | 1 |
| (c) | The fibre made by chemical treatment of wood pulp is | | |
| | <p>i) Rayon</p> <p>ii) Polyester</p> <p>iii) Nylon</p> <p>iv) Acrylic</p> | | 1 |
| (d) | The tilting of the earth is responsible for | | |
| | <p>i) Change of days</p> <p>ii) Change of seasons</p> <p>iii) Change of weeks</p> <p>iv) None of these</p> | | 1 |
| (e) | Least amount of friction is required in which of the following sports? | | |
| | <p>i) Car racing</p> <p>ii) Football</p> <p>iii) Tug of War</p> <p>iv) Ice skating</p> | | 1 |
| (f) | Which of the following is not a greenhouse gas | | |
| | <p>i) Nitrous oxide</p> <p>ii) Carbon dioxide</p> <p>iii) Nitrogen</p> <p>iv) Methane</p> | | 1 |
| (g) | Anita burned pieces of four substances A, B, C and D using a matchstick. She observed that A and B burned readily while C had to be heated for a long time. D did not burn at all. Which of these have the highest ignition temperature? | | |
| | <p>i) A</p> <p>ii) C</p> <p>iii) D</p> <p>iv) B</p> | | 1 |
| (h) | Naphthalene balls are made from | | |
| | <p>i) Carbon</p> <p>ii) Coal Gas</p> <p>iii) Coke</p> <p>iv) Coal Tar</p> | | 1 |
| (i) | The brightest planet in the night sky is | | |
| | <p>i) Venus</p> <p>ii) Saturn</p> <p>iii) Jupiter</p> <p>iv) Mercury</p> | | 1 |

- (j) Which of the following diseases is not caused by drinking water contaminated by sewage
 i) Cholera ii) Jaundice
 iii) Typhoid iv) Tuberculosis
- (k) Write an example each for a contact and noncontact force.
- (l) Why cannot sound be heard in space?
- (m) What is the function of genes?
- (n) Identify the constellation shown below.



- (o) Why does a jar of a mixer become hot when it is run for some time?
- (p) Chlorofluorocarbons are considered to be harmful chemicals. In what way do they cause harm?
- (q) Which natural fibre has properties similar to acrylic? Give one use of it.
- (r) What causes 'Marble cancer'?
- (s) Write two uses of artificial satellites.
- (t) Which gas is produced on incomplete burning of petrol and diesel? Why is it dangerous?

Q.NO SECTION 'B' – ('3' MARKS EACH) – TOTAL – 30 MARKS Marks

- (2) a) What is drag?
 b) Name two factors on which drag on an object depends.
 c) How can drag be minimised?
- (3) Define ignition temperature. Why doesn't a paper cup filled with water catch fire when ignited?
- (4) a) Draw the structure of an amoeba.
 b) What is the function of pseudopodia?
 c) In what way is an amoeba similar to a human white blood cell?
- (5) Name the three products obtained on processing coal in industries and write one use of each.
 Give reason.
- (6) a) Nylon fibres are used to make parachutes and ropes for rock climbing.
 b) Umbrellas are made of synthetic fibres.
 c) Plastic bottles are used to store chemicals like bleach.
- (7) Why are fossil fuels considered to be exhaustible resources? Why cannot they be prepared in the laboratory?(2 points)
- (8) a) Give reason why stars appear to move from east to west.

b) How are shooting stars formed?

(9) How do vehicles cause air pollution? Mention any two ways by which you can reduce air pollution. 3

(10) a) Why shouldn't water be used to extinguish fires involving electrical equipment?
b) Which is the best extinguisher for fires involving electrical equipment? Give reason to support your answer. 3

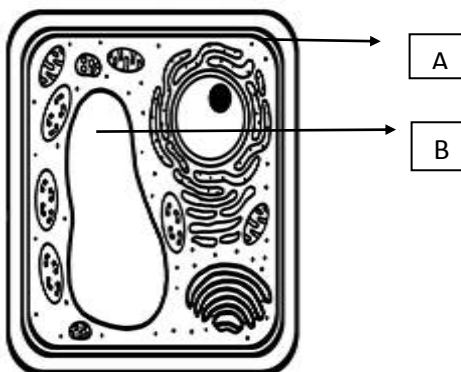
(11) Ponds look green due to algal growth. Write the cause and the harm due to this.

OR

Why is Ganga river considered to be 'dead' at many places? Write two ways by which the river is getting polluted. 3

Q.NO **SECTION 'C' – ('5' MARKS EACH) – TOTAL – 30 MARKS** Marks

(12)



a) Identify the type of cell shown above. 5

b) Label A and B in the diagram.

c) How is B different in a plant and animal cell?

d) Write two functions of A.

OR

a) Name any two basic components of a cell.

b) Identify two components that are common in a plant and animal cell and write their functions.

c) Identify two components that are not common in a plant and animal cell and write their functions.

(13) a) Which out of both do you think is combustion- burning of coal or lighting of bulb? Justify your answer.

b) Sodium is stored under kerosene to prevent its combustion when exposed to air. What type of combustion does it undergo? 5

c) Draw a candle flame and label the four zones of the flame.

(14)



i)



ii)

- Name the plastic used to make articles i and ii.
- Identify the kind of plastic used in i and ii?
- Write one characteristic each of these kinds of plastic.
- Give two disadvantages of using plastics.

5

(15)

- Take two balls and roll one over a marble floor and one over a grass lawn. In which case will the distance covered by the ball be less? Give reason
- You can move heavy boxes by sliding them on the ground or you can put them on a trolley and then roll them over the ground. Explain which method will be easier.
- Write one advantage and disadvantage of friction

5

(16)

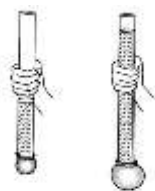
- Why is petroleum called 'Black Gold'?
- What is meant by refining of petroleum?
- Identify the product of petroleum used for the following
 - jet aircrafts
 - vaseline
 - solvent for dry cleaning
 - road surfacing
- Give the advantage of CNG over other fuels?

5

(17)

- State the S I units of force and pressure.
- Give reason why shoulder bags are provided with broad straps.
- A woman is applying 300 N/m^2 of pressure onto a door with her hand. Her hand has an area of 0.02 m^2 . Find out the force being applied.
- In the picture shown below, why is the rubber sheet tied to the second tube bulged more than the one in the first tube?

5



End of the question paper.