

BUDHA DAL PUBLIC SCHOOL PATIALA
First Term Examination (19 September 2024)
CLASS - VIII
PAPER- SCIENCE (SET-A)

Time: 3 hr.

M.M. 80

General Instructions:

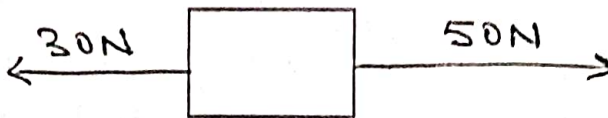
1. All questions are compulsory.
2. Attempt all questions section wise in the serial order neatly and leave one line after every answer.
3. Draw neat and labelled diagrams wherever required.

Section - A

I) Answer in one word :

(1×10=10)

- Q1. Which crop is grown in rainy season?
- Q2. Name one nitrifying bacteria.
- Q3. Which constituent of petroleum is used for making road surfaces? Name it.
- Q4. Name the device used to measure force.
- Q5. Calculate the resultant force in the following :



- Q6. Name the maximum opposing force that comes into play when an object just starts sliding upon another object.
- Q7. What is the name given to special shape of an object offering minimum drag?
- Q8. What are positive ions known as?
- Q9. Name the detectors that are used to detect weak electric current.
- Q10. Name one exotic species.

Section - B

Answer the following questions.

(2×10=20)

- Q1. Draw a well labelled diagram of hoe.
- Q2. Name any two antibiotics.
- Q3. What is fermentation? Name the scientist who discovered it.
- Q4. Write any two uses of coal.
- Q5. A solid object weighs 200N. When placed on a wooden plank, the area of contact is found to be 5m². Find the pressure exerted by the solid object on the wooden plank.
- Q6. Why are cutting tools provided with sharp edges?

A-1

- Q7. Write two factors that affect friction.
- Q8. Classify the following as electrolyte and non-electrolyte.
- Dilute potassium hydroxide
 - Mustard oil
 - Alcohol
 - Lemon juice
- Q9. Give a reason for each of the following:
- Electricians use plastic - coated tools
 - Distilled water does not conduct electricity
- Q10. Recycling paper conserves our natural resources. Justify.

Section - C

Answer the following questions:

- Q1. Why do farmers level the field before sowing?
- Q2. List three points of difference between manure and fertilizers.
- Q3. a) Name two chemicals used as food preservative?
b) Heating prevents spoilage of food. Explain.
c) Give two advantages of food preservation.
- Q4. a) What is meant by 'destructive distillation of coal'?
b) What are the products obtained by the destructive distillation of coal?
- Q5. a) Define exhaustible and inexhaustible natural resources.
b) Why is petroleum called "black gold"?
- Q6. Name two contact forces. Define any one of them.

OR

Describe the working of syringe with diagram.

- Q7. Name the effect of force in the following:
- kneading the dough
 - kicking a football
 - pushing a moving swing
- Q8. How do lubricants reduce friction? Name any one dry lubricant.
- Q9. Describe an activity to show electroplating of copper on an iron key. Draw diagram also.
- Q10. What is a biosphere reserve? List four biosphere reserves of India.

Section - D

I) Choose the correct option:

(3)

- Q1. Jim Corbett National Park is known for conservation of _____.
a) Tiger b) Lion c) Elephant d) Rhinoceros
- Q2. Which of the following exerts greater friction?
a) Solids b) Liquids c) Gases d) Fluids
- Q3. A circuit is made by connecting wires to a non-metal X that allows electricity to pass through it. Identify X.
a) Phosphorus b) Bromine c) Sulphur d) Graphite

State whether the following statements are True/False:

(3)

- Carbon dioxide gas is released during the process of fermentation.
- Liquid pressure increases with increase in depth.
- Urea is a compost.

III) Match the following:

(3)

Column A

Column B

- | | |
|----------------------|-------------------|
| 1. Formation of curd | a) Aedes mosquito |
| 2. Bacteria | b) Casein |
| 3. Dengue | c) Tuberculosis |

IV) In the following question, two statements are given - one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to this question from the codes (a), (b), (c) and (d) as given below:

Assertion (A) : It is easier to walk on a rough surface than on a smooth surface.

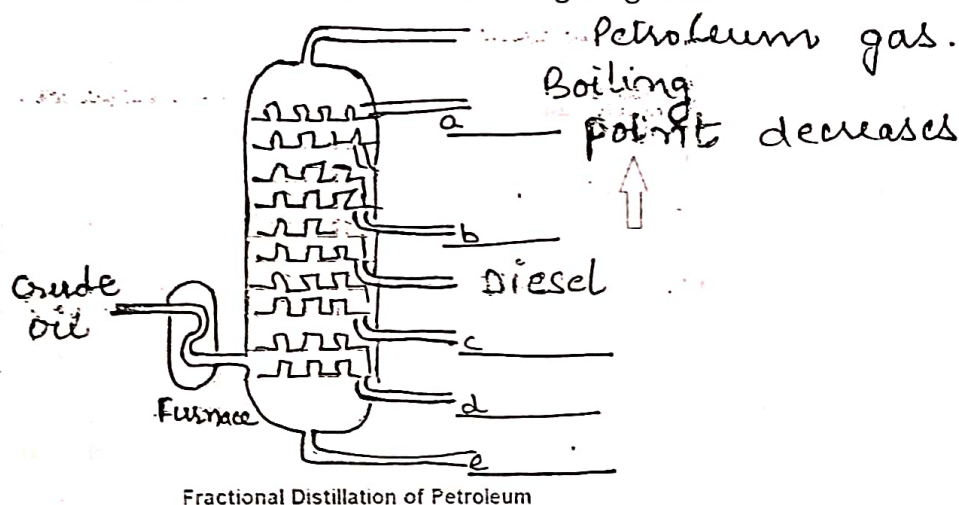
Reason (R) : The interlocking between feet and surface is more on a rough surface.

- Both A and R are true and R is the correct explanation of A.
- Both A and R are true and R is not the correct explanation of A.
- A is true but R is false.
- A is false but R is true.

Section - E

(1×5=5)

I) Label the parts a, b, c, d and e in the following diagram.



II) Read the passage carefully and answer the questions that follow:

(5)

The main methods used for irrigation are as follows:

(i) **Sprinkler System:** This system is more useful on the uneven land where sufficient water is not available. The perpendicular pipes, having rotating nozzles on top, are joined to the main pipeline at regular intervals. When water is allowed to flow through the main pipe under pressure with the help of a pump, it escapes from the rotating nozzles. It gets sprinkled on the crop as if it is raining. Sprinkler is very useful for lawns, coffee plantation and several other crops.

(ii) **Drip system:** In this system, the water falls drop by drop directly near the roots. So, it is called drip system. It is the best technique for watering fruit plants, gardens and trees. Water is not wasted at all. It is a boon in regions where availability of water is poor.

Q1) Which of the following is NOT an example of source of irrigation?

(a) Well (b) Forest (c) Canal (d) Dams

Q2) Which one of the following examples is a traditional method of irrigation?

(a) Sprinkler (b) Drip system (c) Hose (d) Dhekli

Q3) is used in uneven land where sufficient water is not available and has a rotating nozzle?

(a) Sprinkler system (b) Pulley system

(c) Drip system (d) Chain pump system

Q4) Why is irrigation important in crop cultivation?

Q5) Explain in brief about the drip irrigation system.