

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

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. Name two Zaid crops.
- Q2. Name one denitrifying bacteria.
- Q3. Name one non-polluting fuel used in vehicles.
- Q4. Which instrument is used to measure atmospheric pressure?
- Q5. Calculate the resultant force in the following :



- Q6. Name one dry lubricant.
- Q7. What is the cause of friction?
- Q8. What are negative ions called?
- Q9. Name one migratory bird.
- Q10. What is LED?

Section – B

Answer the following questions.

(2×10=20)

- Q1. Draw a well labelled diagram of plough.
- Q2. How do leguminous plants increase soil fertility?
- Q3. Write two uses of natural gas.
- Q4. Why do high rise buildings have wide foundation?
- Q5. A force of 120N is applied to an object of area 3m². Calculate the pressure.
- Q6. What is antibiotic? Name any two antibiotics.
- Q7. Rolling friction is less than sliding friction. Why?
- Q8. Classify the following as electrolyte and non-electrolyte
a) Vinegar b) Salt Solution c) Petrol d) Dilute hydrochloric acid

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- Q9. Give a reason for each of the following:
- a) Cans made for storing food are electroplated with chromium.
 - b) Sea - water is a good conductor of electricity.
- Q10. How does deforestation affect the rainfall pattern of an area?

Section - C

Answer the following questions:

- Q1. What is ball bearing? How do they reduce friction?
- Q2. Write an activity to show electroplating of copper on an iron strip. Draw diagram also.
- Q3. How are national parks different from wildlife sanctuaries? (Give three points of difference)
- Q4. a) Name any two common food preservatives used at home.
b) How is food preserved by freezing?
c) Give two advantages of food preservation.
- Q5. Name two non-contact forces. Define any one of them.

OR

Describe the working of drinking straw with diagram.

- Q6. Identify the effect of force in the following:
- a) Catching a fast moving ball
 - b) Squeezing a toothpaste tube
 - c) Pushing a table
- Q7. a) What is meant by destructive distillation of coal?
b) What are the products obtained by the destructive distillation of coal?
- Q8. a) What are weedicides? Name one weedicide.
b) Write two harmful effects of weeds in the crop field.
- Q9. Write three advantages of using manure in a crop field.
- Q10. a) Why is petroleum called 'black gold'?
b) What are renewable and non-renewable resources of energy? Give one example to each.

Section - D

- I) Choose the correct option: (3)
- Q1. Which of the following ways is not used to reduce friction?
a) Polishing b) Lubricating c) Using sand d) Using ball bearing
- Q2. Which of the following activities cannot help in conservation?
a) Natural disaster b) Recycling polythene bags
c) Recycling of silk d) Recycling of paper
- Q3. Rohit makes an electric circuit using a battery, a bulb and electric wires. He puts two ends of the wire in a beaker that contains distilled water to complete the circuit. He notices that the bulb does not glow. What changes in the circuit should be made to make the bulb glow?

- add a pinch of sugar in the beaker
- cool the water present in the beaker
- heat the water present in the beaker
- add a pinch of common salt in the beaker

II) State whether the following statements are True/False: (3)

- The process of preservation of milk is known as pasteurization.
- The force exerted by 100g weight is nearly 9.8N.
- WCU stands for world conservation union.

III) Match the following: (3)

Column A

- Antibiotic
- Vaccination
- Common disease

Column B

- Influenza
- Penicillin
- Edward Jenner

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: (1)

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

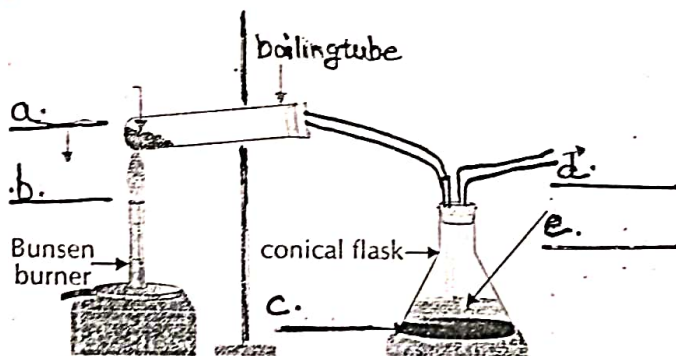
Reason (R) : The interlocking between feet and surface is more on a rough surface.

- 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.