

**BUDHA DAL PUBLIC SCHOOL PATIALA**

**First Term Examination (15 September 2025)**

**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. What is rearing of honeybees on large scale called?
- Q2. Name the hard outer covering on microorganisms.
- Q3. Give example of a disease caused by bacteria in human beings.
- Q4. Which variety of coal has least carbon content?
- Q5. The seasonal movement of animals from one habitat to another is called \_\_\_\_.
- Q6. What is the S.I. unit of force?
- Q7. Name the instrument that is used to measure atmospheric pressure at any place.
- Q8. The frictional force exerted by the fluids is called \_\_\_\_\_.
- Q9. \_\_\_\_\_ is the positive electrode.
- Q10. Give one example of conductor of electricity.

**Section – B**

**II) Answer the following questions.**

**(2×10=20)**

- Q1. Write a note on Rabi crop with one example.
- Q2. What is food preservation? Which preservative is used to preserve jams and jellies?
- Q3. How is coal formed from wood or plants inside the earth?
- Q4. What are endangered species? Give one example.
- Q5. Write any two applications of electrolysis.
- Q6. Write a short note on LED.
- Q7. A block of weight 6 kgf and dimension  $5\text{cm} \times 2\text{cm} \times 1\text{cm}$  rests on a table with base as  $(5\text{cm} \times 2\text{cm})$ . Calculate the pressure exerted by the block on the table.
- Q8. Why heavy vehicles like trucks have broad tyres?
- Q9. Write two causes of friction.
- Q10. How does the streamlined body of aeroplane help it in travelling?

Section - C

(2×4=8)

III) Answer the reason based questions:

- Q1. Why is virus not included in the category of microorganisms?
- Q2. Why small quantity of talcum powder is applied on carromboard while playing?
- Q3. Why use of bio-pesticides is encouraged over chemical pesticides?
- Q4. Why are bathroom fittings plated with chromium?

IV) Answer the following:

(3×8=24)

- Q1. List the modern methods of irrigation. Explain any one method.
- Q2. How do microorganisms clean the environment?
- Q3. Write any three methods by which we can save petroleum for future generation.
- Q4. What are Biosphere reserves? What are objectives of setting Biosphere reserves?
- Q5. Describe electroplating of copper on an iron spoon with diagram.
- Q6. Explain with two examples that friction is a necessity in our life.
- Q7. What are non-contact forces? Explain any one of them.
- Q8. What is Pascal's Law? How will you demonstrate this law by simple experiment?

Section - D

(8×1=8)

V) Multiple Choice Questions:

- Q1. Which of these is a green - house gas?  
a) carbondioxide      b) oxygen      c) hydrogen      d) chlorine
- Q2. Which agricultural implement is not used for loosening and turning of soil?  
a) plough      b) seed drill      c) trowel      d) hoe
- Q3. Yeast is used in making of  
a) curd      b) vaccine      c) bakery products      d) antibiotic
- Q4. 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) : Recycling saves our resources.

Reason (R) : It takes 17 full grown trees to make one ton of paper.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true and R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

- Q5. In which of these cases friction is not useful?  
a) Writing on paper      b) Walking on road  
c) Working of machine      d) Applying brakes of vehicles
- Q6. By which method friction can be decreased?  
a) Lubrication of surfaces  
b) Making soles of shoes rough  
c) Making tyres of vehicles corrugated  
d) Making brake-pads of vehicles rough
- Q7. The cutting of crop when it becomes mature is called \_\_\_\_\_.  
a) Weeding      b) Harvesing      c) Threshing      d) Winnowing
- Q8. Which metal is not used for electroplating?  
a) Aluminium      b) Silver      c) Gold      d) Chromium

### Section - E

- VI) Read the passage carefully and answer the questions that follow:

(1×5=5)

Species is a group of population which are capable of interbreeding. This means that the members of a species can reproduce fertile offspring only with the members of their own species and not with the members of other species.

Endemic species are those species of plants and animals which are found exclusively in a particular area. A particular type of animal or plant may be endemic to a zone, state or a country like Bison and Flying Squirrel.

Tiger is one of the many species which are slowly disappearing from our forests. Project Tiger was launched by the government to protect the tigers in the country. The Satpura Tiger Reserve is unique in the sense that a significant increase in the population of tigers has been seen here. But there are animals whose numbers are diminishing to a level that they might face extinction like Asiatic lion, Indian Rhinoceros etc. These are known as endangered animals and are not likely to survive in future if conditions are not favourable.

- Q1) What are species?  
Q2) What are characteristics of species?  
Q3) What is meant by Project Tiger?  
Q4) What are endangered animals?  
Q5) What are endemic species?



VII) Answer these questions based on the given diagram:

(5)

- 1) Name the process which is carried out in the fractional distillation unit shown in the diagram.
- 2) Name the gas which goes out of the column at the top.
- 3) What is the part of fractionating column in which crude oil is heated?
- 4) Name one of the components of least volatile fraction at the bottom of column.
- 5) What is the use of the gas which goes out of the column at top?

