



ANGEL'S PUBLIC SCHOOL

SAMPLE PAPER

CLASS – VIII HALF YEARLY EXAM SESSION 2024 – 25

TIME : 3 HRS

SUBJECT : SCIENCE

M.M:80

General Instructions:-

- (a) All questions are compulsory.
- (b) Section – A contains five multiple choice questions of 1 mark each.
- (c) Section – B contains ten one word answer questions of 1 mark each.
- (d) Section – C contains ten short answer questions of 3 marks each.
- (e) Section – D contains five long answer questions of 5 marks each.
- (f) Section – E contains two diagrams of 5 marks each.

SECTION – A

1. Multiple choice questions.

- (a) Birds that travel long distances to overcome harsh conditions are known as ____ .
 - (i) travelling birds
 - (ii) flying birds
 - (iii) endangered birds
 - (iv) migratory birds
- (b) Which of the following scientists discovered cells in cork slices?
 - (i) Louis Pasteur
 - (ii) Antonie van Leeuwenhoek
 - (iii) Carl Linnaeus
 - (iv) Robert Hooke
- (c) Assertion (A): Chromosomes are responsible for the transfer of characteristics from parents to offspring.
 - (i) Reason (R): Chromosomes are present in the nucleus.
 - (ii) Both A and R are true and R is the correct explanation of A
 - (iii) A is true but R is false
 - (iv) Both A and R are true but R is not the correct explanation of A
 - (v) A is false but R is true
- (d) Which of the following is an inexhaustible natural resource?
 - (i) Petroleum
 - (ii) Coal
 - (iii) Natural gas
 - (iv) Solar energy
- (e) The substances which have very low ignition temperature will
 - (i) Catch fire easily
 - (ii) not catch fire
 - (iii) Catch fire after some time
 - (iv) None of these

SECTION – B

2. One word answer questions:-

- (a) Name a fuel that is used as a domestic fuel.
- (b) Which gas is evolved by incomplete combustion of fuel.
- (c) Which part of cell contain organelles.
- (d) Who published the Red Data book.
- (e) Name a liquid fluid that is highly inflammable.
- (f) Name a non -polluting fuel used in vehicles.
- (g) Name a metal that is used in electric wiring.
- (h) Name the most common fire extinguisher.
- (i) Name one metal that is poor conductor of heat.
- (j) What is the colour of an LPG flame?

SECTION – C

3. Short answer questions.

- (a) Why is plasma membrane called selectively permeable membrane.
- (b) Name two protected areas created by government to protect biodiversity.
- (c) Write any two uses of plastic.

- (d) Water can be boiled in a paper cup without burning it. Explain.
- (e) In an experiment 5.5 kg of fuel was burnt completely. The heat produced was measured to be 180000 kJ. Calculate the calorific value of fuel.
- (f) What is a biosphere reserve? List two biosphere reserve of India.
- (g) Why are chromosomes called hereditary vehicles
- (h) List three characteristics of an ideal fuel.
- (i) What are natural resources? Explain with examples.
- (j) Define unicellular and multicellular organisms. Give one example of each.

SECTION – D

7. Long answer question

- (a) Differentiate between plant cell and animal cell. Give five differences.
- (b) What is migration. Why do animals migrate? List two examples of migratory birds
- (c) How does burning of crackers pollute our environment
- (d) Define spontaneous combustion and rapid combustion.
- (e) Differentiate between metals and non metals.

SECTION – E

8. Draw a well labeled diagram of

- (a) Animal cell.
- (b) Different zones of candle flame