



ANGEL'S PUBLIC SCHOOL

SAMPLE PAPER

HALF YEARLY EXAM SESSION 2025 – 26

CLASS – VII

TIME: 3 HRS

SUBJECT : SCIENCE

M.M:80

GENERAL INSTRUCTIONS: –

- (a) All the questions are compulsory.
- (b) Section–A comprises 10 multiple choice questions, carrying 1 mark each.
- (c) Section–B comprises 10 one-word answer questions, carrying 1 mark each.
- (d) Section–C comprises 10 short answer questions, carrying 3 marks each.
- (e) Section–D comprises 04 long answer questions, carrying 5 marks each.
- (f) Section–E comprises 02 diagrams, carrying 5 marks each.

SECTION – A

1. Choose the correct option.

- (a) Handles of cooking utensils should be made of materials that are:
 - (i) conductors
 - (ii) insulators
 - (iii) radiators
 - (iv) reflectors
- (b) Which one of the following is added to soil if it is too acidic?
 - (i) Vinegar
 - (ii) Glucose
 - (iii) Calcium oxide
 - (iv) Tomato juice
- (c) Mixing of vinegar with baking soda is a:
 - (i) physical change
 - (ii) chemical change
 - (iii) temporary change
 - (iv) reversible change
- (d) Which of the following factors does not contribute to the formation of a cyclone?
 - (i) Wind speed
 - (ii) Temperature
 - (iii) Rain
 - (iv) Humidity
- (e) Iodine gives blue- black colour with:
 - (i) chlorophyll
 - (ii) water
 - (iii) sunlight
 - (iv) starch
- (f) Heat can be conducted from one object to another when they are:
 - (i) in contact with each other
 - (ii) at different temperatures
 - (iii) at the same temperature
 - (iv) both (i) and (ii)
- (g) Which one of the following acids contains nitrogen?
 - (i) Sulphuric acid
 - (ii) Hydrochloric acid
 - (iii) Acetic acid
 - (iv) Nitric acid
- (h) Which one of the following is not a chemical change?
 - (i) Formation of curd
 - (ii) Spoilage of food
 - (iii) Melting of ice
 - (iv) Digestion of food
- (i) During explosion, the volume of air:
 - (i) increases
 - (ii) decreases
 - (iii) remains the same
 - (iv) first increase then decrease
- (j) If a new substance is formed, the change is called:
 - (i) physical change
 - (ii) chemical change
 - (iii) neutral change
 - (iv) mechanical change

SECTION – B

2. One word answer.

- (a) Name a substance that react with each other to form new substance.
- (b) Name the winds blowing towards 60 degree N and 60 degree S latitude.

- (c) Which type of change occurs when we burn coal?
- (d) Which acid is produced in our stomach?
- (e) Name a natural indicator.
- (f) Name a scientist who named Fahrenheit scale.
- (g) Which property of matter is used in measurement of temperature?
- (h) Name an insectivorous plant.
- (i) Give an example from everyday life where heat is transferred by radiation.
- (j) Which acid is present in curd?

SECTION -C

3.Short answer question. (Do any 10)

- (a) Why is mercury used in thermometers?
- (b) Why is an antacid tablet taken when you suffer from acidity?
- (c) What happens when magnesium oxide is dissolved in water?
- (d) What do you mean by high pressure area and low pressure area?
- (e) How are summer monsoons caused over India?
- (f) Why is melting of ice to form water considered a physical change?
- (g) Why does hot air rise upwards?
- (h) Why are the firefighting suits always bright and shiny?
- (i) Why is mistletoe called a partial parasite?
- (j) What happens when the stomach fails to protect itself from HCL?
- (k) What are the three conditions that form a thunderstorm?
- (l) List three ways to prevent rusting.

SECTION – D

4. Long question answers. (Do any 4)

- (a) How is radiation different from conduction and convection, for transfer of heat?
- (b) All substances are classified as acidic, basic or neutral. Explain.
- (c) How are copper sulphate crystals prepared?
- (d) What is cyclone? Describe the formation of a cyclone.
- (e) Differentiate between a tornado and a cyclone.

SECTION –E

5. Draw the well- labelled diagram of the following.

- (a) Diagram
- (b) Diagram