



INDIAN SCHOOL DARSAIT
HALF YEARLY EXAMINATION- AUGUST 2017
SAMPLE PAPER-1
SCIENCE

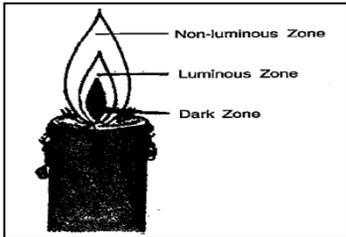
CLASS: VIII

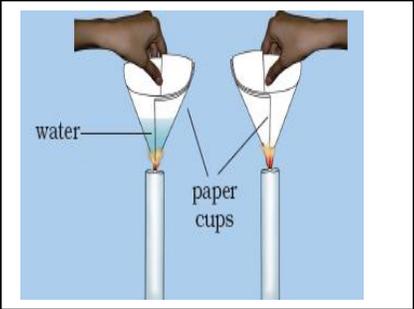
Max. Marks: 80

Time: 3 hours

General Instructions:

- i) All questions are compulsory.
- ii) Marks for each question are indicated against it.
- iii) Questions 1 and 2 are very short answer questions and carry 1 mark each.
- iv) Questions 3 to 11 are short answer questions and carry 2 marks each.
- v) Questions 12 to 20 are long answer questions and carry 3 marks each.
- vi . Question number 21 is a value based question of three marks**
- vii) Question number 22 to 27 are long answer questions and carry 5 marks each.

| | | |
|---|---|---|
| 1 | Name the petroleum product used for surfacing roads? | 1 |
| 2 | Name a fire resistant plastic. Also write any one use of it. | 1 |
| 3 | Differentiate between Unicellular and Multicellular organisms and give examples | 2 |
| 4 | <p>a. Give the significance and the characteristic colour of each zone labeled in the diagram:</p> <div style="text-align: center;"></div> <p>b. Identify the zone used by goldsmith to melt gold and silver. Give a reason.</p> | 2 |
| 5 | Differentiate between static friction and sliding friction. | 2 |
| 6 | Define malleability and ductility. | 2 |
| 7 | Write an activity to show that liquids exert equal pressure at the same depth. | 2 |
| 8 | Write an activity to show the acidic nature of Sulphur dioxide. | 2 |
| 9 | How are the following tools useful for the farmers? a. Plough b. Cultivator c. Sickle d.. Khurpi | 2 |

| | | |
|----|---|---|
| 10 | <p>a) Observe the diagram given below and identify whether it is a Plant cell or an Animal cell. Give two reasons to support your answer.</p>  <p>b) What is the importance of DNA in a cell?</p> | 2 |
| 11 | <p>a) Water is heated in a water cup as shown. The water becomes hot but the paper cup does not burn. Give reasons.</p>  <p>b) In an experiment 4.5 kg of a fuel was completely burnt. The heat produced was measured to be 180,000 kJ. Calculate the calorific value of the fuel.</p> | 2 |
| 12 | <p>(a) How is Rayon and Nylon obtained? (b) Write any two uses of Acrylic fibres?</p> | 3 |
| 13 | <p>Give reason for the following:</p> <p>(a) It is easier to cut vegetables with sharp knives. (b) Our body does not get crushed under the huge atmospheric pressure. (c) School bags have broader straps.</p> | 3 |
| 14 | <p>What are Displacement reactions? Give two examples with their word equations.</p> | 3 |
| 15 | <p>(a) Explain how friction is caused. (b) Ships and aeroplanes have streamlined shapes. Why?</p> | 3 |
| 16 | <p>(a) Ramesh runs his toy car on wet glass, dry glass, newspaper, wooden floor. The force of friction acting on the car on different surfaces in decreasing order will be? (b) What are lubricants? Write any two examples.</p> | 3 |

| | | |
|----|---|---|
| 17 | a)What are petrochemicals? Mention their uses. b) Why petroleum is called black gold? | 3 |
| 18 | Differentiate between the three types of combustion. Give examples. | 3 |
| 19 | a)What is crop rotation? Why are leguminous plants often used as one of the crops for crop rotation? b)Can we store a freshly harvested crop instantly? Give reasons for your answer OR What is irrigation? Describe two methods of irrigation which conserve water. | 3 |
| 20 | Write a short note and mention the functions of the following a. Cytoplasm b. Nucleus c. Plastids OR Draw a neat diagram of animal cell and label following parts. a)Nucleus b)cell membrane c)Mitochondria d)Chromosomes | 3 |
| 21 | Ram saw a person whose clothes were caught in fire due to faulty wiring in his car. He quickly ran towards the person with a blanket and extinguishes the fire by wrapping the person in the blanket. Then he calls the emergency service to take the person to the nearby hospital. (a) What are the values displayed by Ram? (b) How does the blanket help to distinguish the fire? (c) Why water is not used for extinguishing fire in electrical appliances? | 3 |
| 22 | a)Differentiate between manure and fertilizers. b) (i) What are weedicides? Name two commonly used weedicides. (ii) Name a farm machine used for both harvesting and threshing. (iii) How are Rabi crops different from Kharif crops? | 5 |
| 23 | (a) Distinguish between thermoplastics and thermosetting plastics with one example each. (b) What is PET. Mention its two important uses. | 5 |
| 24 | (a) Calculate the pressure exerted by a heavy container, which exerts a force of 800 N in an area of 20 m ² . (b) Name the force acting in each of the following cases. | 5 |

| | | |
|----|---|---|
| | <p>(i) Your hair stands on end when you remove a woolen cap.</p> <p>(ii) Falling raindrops.</p> <p>(c) Write any two effects of force.</p> | |
| 25 | <p>a) Differentiate between prokaryotes and eukaryotes with relevant examples.</p> <p>b) List the differences between a plant cell and animal cell.</p> <p>c) Why is a cell membrane important to a cell?</p> | 5 |
| 26 | <p>a) Why should we conserve fossil fuels? Which organization in India is concerned with the conservation of petrol and diesel? List the tips given by this organization.</p> <p>b) State some harmful effects of using fossil fuels?</p> | 5 |
| 27 | <p>(a) Write down the chemical equation for the reactions of the following metals with oxygen. (i) Iron (ii) Magnesium</p> <p>(b) Phosphorus is stored in water. Why?</p> <p>(c) How will you detect the formation of Hydrogen gas when metals react with acids?</p> <p>(d) Name a non-metal used in fertilizers to enhance the growth of plants.</p> <p style="text-align: center;">OR</p> <p>(a) Write the chemical equation for the reactions of the following metals with water. (i) Sodium (ii) Potassium</p> <p>(b) What happens when dilute hydrochloric acid is added to zinc granules in a test tube.</p> <p>(c) Name the metal which exists in its liquid form at room temperature.</p> <p>(d) Immersion rods for heating liquids are made up of metallic substances. Why?</p> | 5 |