



INDIAN SCHOOL DARSAIT
HALF YEARLY EXAMINATION, SEPTEMBER-2017

Sample Question Paper- 2

SCIENCE

Class: VIII

Max. Marks: 80

Date:

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.

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|--|---|
| 1) What is the head of safety matches made up of? | 1 |
| 2) In which case friction is a disadvantage?
a) running a machine b) walking c) writing d) applying brakes | 1 |
| 3) Give reasons:
Paddy cannot be grown in the winter season.
Field should be ploughed before sowing seeds. | 2 |
| 4) Define
(a) Carbonisation
(b) Coke | 2 |
| 5) i) What are the factors on which the pressure exerted on a body depend? Give SI unit of pressure.
ii) How does the pressure of a liquid depend on its depth? | 2 |
| 6) a) A metal X can replace another metal Y from its metal salt. Is X above or below Y in the reactivity series

b) What will happen if an iron nail is dipped in copper sulphate solution? Write a word equation for this reaction. | 2 |
| 7) Describe an activity to show that sodium is a highly reactive metal. | 2 |

- 8) 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. 2
- 9) Draw neat & labelled diagram of a typical animal cell. 2
- 10) When smita observed a slide under the microscope using a stain found there was a nucleus in the margin and a large vacuole. Name the slide Smita prepared and identify the stain used in the preparation. Name any other two organelles which are unique to these cells. 2
- 11) If you try to hold a glass with oil on your hand it tend to slip.Why? 2
- 12) Kavita, Mahima and Shreya were doing an experiment in which water was to be heated in a beaker. Kavita kept the beaker innermost of the wick in black part of the candle flame. Mahima kept the beaker near the wick in the yellow part and Shreya kept the beaker in the outermost part of the flame. Whose water will get heated in shorter time and why? 3
- Or
- (a) Draw and label the different zones of a candle flame.
(b) How are acid rain formed?
- 13) a) Suppose you are going in a jet plane and one of the windows breaks due to an accident. What problem do you think that you will face? 3
b) Calculate the pressure exerted by a force of 8N on a body of area 2.5m^2 .
- 14) Write briefly on the various components of coal distillation. 3
- 15) Give one word answer: 3
(a) Chemical used as moth repellent.
(b) The gas evolved on burning coal in the presence of oxygen
(c) The fuel which produces less pollution
(d) The Association which offers the tips to conserve petrol & diesel.
(e) The purest form of carbon
(f) Resources present in unlimited quantity in nature
- 16) i) Disposal of plastic is a major problem Comment on this statement 3
ii) What measures do you suggest to keep our public places plastic free.
- 17) Write the functions of the following cell organelles: 3
(i) Cell membrane
(ii) Nucleus
(iii)Plastid
- Or
- (a) How does the cell wall protect the plants?
(b) Define Chromosomes.
(c) What are vacuoles?
- 18) Give reason for the following: 3
a) It is advised not to wear polyester cloths while working in laboratory or working

with fire in the kitchen.

b) Fire resistant materials are made up of melamine

c) Nylon ropes are used in rock climbing

- 19) List a few physical properties of metals and non-metals. 3
- 20) Write the properties and uses of following synthetic fibres: 3
a) Rayon
b) Polyester
c) Acrylic
- 21) Ramu ploughed the field and was sowing the seeds with his hands(broadcasting). An Agriculture Officer who passed by the village found this and asked Ramu to use the modern implement. 3
(a) Name the modern implement recommended by the Agriculture Officer for sowing.
(b) State the benefits of using the modern implements in sowing?
(c) How do you think Ramu could have ploughed his field in the tradition method and what is the modern implement used for ploughing?
(d) What are the values exhibited by the Agricultural Officer?
- 22) Describe an activity to show that : 5
a) metal oxides are basic in nature
b) Non-metal oxides are acidic in nature
OR
Describe an activity to show that hydrogen gas is liberated when metals react with an acid.
- 23) i) What do you mean by drag? On what factors does it depend? 5
ii) The objects moving in fluids must have special shapes. Explain.
- 24) Differentiate between thermoplastics and thermosetting plastics with suitable examples and also mention its uses. 5
- 25) (a) Describe the modern irrigation methods and its advantages. 5
(b) What are weedicides? Which is the best time for spraying the weedicides?
- 26) (a) Differentiate between:- 5
(i) Unicellular and multicellular organisms
(ii) prokaryotic cell and eukaryotic cell
(b) Name the smallest cell?
(c) Identify the unicellular organisms:
Bacteria, moulds, amoeba, mushroom, birds, paramecium, man, yeast.
- 27) (a) Name the substance used to extinguish fire involving electrical equipment and why? 5
(b) What is calorific value? Write its unit.
(c) What are the characteristics of an ideal fuel?