

TI SCHOOL
AMBATTUR, CHENNAI
SUMMATIVE ASSESSMENT-I

CLASS : VIII

MARKS: 60 marks

SUBJECT: SCIENCE

TIME: 2Hrs

SECTION-A (CHEMISTRY)

I. Choose the correct answer-

3x1=3

1. Which of the following can be beaten into thin sheets?
(a) Copper (b) Phosphorus (c) Sulphur (d) Iodine

2. Rayon is different from synthetic fibres because
(a) it has a silk-like appearance.
(b) it is obtained from wood pulp.
(c) its fibres can also be woven like those of natural fibres.
(d) It can be dyed into various colours.

3. Which of the following statements is correct?
a) Fossil fuels can be made in the laboratory.
b) CNG is a more polluting fuel than petrol.
c) Coal tar is a mixture of various substances.
d) Kerosene is not a fossil fuel.

II. Match the following -

6x 1/2 =3

- | | |
|----------------|---------------------------|
| (i) Gold | (a) Water Purification() |
| (ii) Iron | (b) Electric wire () |
| (iii) Chlorine | (c) Thermometer () |
| (iv) Carbon | (d) Jewellery () |
| (v) Copper | (e) Machinery () |
| (vi) Mercury | (f) Fuel () |

III. Fill in the blanks.

4x1=4

1. The petroleum product used for surfacing of roads is _____.
2. Metals are good conductors of _____ and _____.
3. Iron is _____ reactive than copper.
4. Process of separation of different constituents from petroleum is called _____.

IV. Answer the following-

3x2=6

1. Explain why fossil fuels are exhaustible natural resources.
2. Describe characteristics and uses of coke.
3. Explain why plastic containers are favoured for storing food.

V. Answer any TWO from the following-

2x4=8

1. Explain why some fibres are called synthetic. Also list any four properties of synthetic fibres.

2. What happens when

(a) Dilute nitric acid is poured on a copper plate?

(b) Zinc pieces are dropped in copper sulphate solution?

Write word equations of the reactions involved.

3. Give reasons for the following.

(a) Aluminium foils are used to wrap food items.

(b) Immersion rods for heating liquids are made up of metallic substances.

(c) Iron cannot displace zinc from its salt solution.

(d) Sodium and potassium are stored in kerosene.

4. Write the chemical name and formula for any **two acids** and any **two bases**.

VI. Answer any ONE from the following in detail-

1x6=6

1. Distinguish between metals and non-metals on the basis of their properties.

2. Describe how coal is formed from dead vegetation. What is this process called?

SECTION-B (BIOLOGY)

PART A

Choose the correct answer for the following questions.

5 x 1 = 5

1. The process of loosening and turning of soil is called

a) irrigation and manuring

b) digging and winnowing

c) tilling and ploughing

d) harvesting and storage

2. Which of the following statement is not true for organic manure?

a) It enhances water holding capacity of soil

b) It has a balance of all plant nutrients

c) It provides humus to soil

d) It improves texture of soil

3. Alcohol is produced with the help of

a) sodium chloride

b) yeast

c) nitrogen

d) carbon dioxide

4. The gas released during the preparation of bread is

a) oxygen

b) carbon dioxide

c) nitrogen

d) sulphur dioxide

5. Paheli dug two pits, A and B, in her garden. In pit A, she put a polythene bag packed with some agricultural waste. In pit B, she dumped the same kind of waste but without packing it in a polythene bag. She, then covered both the pits with soil. What did she observe after a month?

- a) Waste in pit A degraded faster than that in pit B
- b) Waste in pit B degraded faster than that in pit A
- c) Waste in both pits degraded almost equally
- d) Waste in both pits did not degrade at all

PART B

Answer any four of the following questions in one or two sentences **4x3 = 12**

- 6. Farmers in Northern India grow legumes as fodder in one season and wheat in the next season.
 - (a) Give the name of this practice.
 - (b) Does this practice help in the replenishment of soil. How?
- 7. State two advantages of using chemical fertilisers over manures. What would happen if fertilisers are used in excess?
- 8. A farmer was growing only paddy in a particular field for five successive generations. He found that the yield decreases everytime. Give reasons and how can this problem be solved?
- 9. Write a short note on vaccines.
- 10. Write the importance of nitrogen-fixing bacteria in soil.

PART C

Answer any two of the following questions in short **2x4 = 8**

- 11. If you are given a dry piece of land for cultivation, what will you do before sowing the seeds? 12. Define animal husbandry. Write the names of some food materials provided by animals.
- 13. Yeast is used for commercial use. Write one commercial use of yeast.

PART D

Answer any one of the following questions in detail **1 x 5 = 5**

- 14. Differentiate between
 - (a) Rabi season crop and kharif season crop.
 - (b) Harvesting and threshing.
- 15. Write 10 lines on the usefulness of microorganisms in our lives.
