

DEVAMATHA CMI PUBLIC SCHOOL
PERIODIC TEST - I 2017 - 18

Std. VIII**SCIENCE**

Time : 90min

Marks : 40

PART A - PHYSICS (13 marks)

- I Answer the following questions in one or two sentences each: (1)
1. A flat piece of wood and a wooden ball having the same mass are placed on the same surface. If they are pushed with the same force turn by turn which of them will travel further? Why?
- II Answer the following questions in two or three sentences each: (2x2=4)
2. A man first stands and then lies down on a sandy beach. In which case will he sink deeper and why?
 3. Calculate the pressure produced by applying 20 N force on a floor measuring 1 m wide and 4m long.
- III Answer the following questions in three or four sentences each:
4. a) Two charged objects may attract or repel each other. Which type of force exists between them? Define it. (3)
 b) What are the effects of force?
- IV Answer the following question briefly: (5)
5. a) Friction is a necessary evil. Comment on this statement.
 b) Give reasons for the following:
 - i) While playing caroms, talcum powder is sprinkled on the board.
 - ii) When a space-ship re-enters the atmosphere, tremendous heat is produced.

PART B - CHEMISTRY (13 marks)

- I Answer the following questions in one or two sentences each: (1x2=2)
1. Why is it advisable to wear cotton clothes while cooking in the kitchen instead of synthetic clothes?
 2. Write one use for each of the following elements:

a) Carbon	b) Mercury	c) Sulphur	d) Chlorine
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- II Answer the following questions in two or three sentences each: (2x4=8)
- 1 Write the chemical equation and explain the reaction between the following:
 - a) Magnesium and Zinc sulphate
 - b) Copper and Ferrous sulphate
 2. What are the advantages of using plastics?
 3. Differentiate metals and non metals based on their physical properties.
 4. a) Give any two properties of nylon fibre.
 b) Acidic food should not be stored in metal containers. Why?
- III Answer the following questions briefly: (3x1=3)
1. a) Complete the following chemical equations:
 - i) $\text{CO}_2 + \text{H}_2\text{O} \rightarrow$
 - ii) $\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow$

- b) Give reasons for the following statements.
- i) Bakelite is used to make electrical switches.
 - ii) School bells are made up of metals.

PART C - BIOLOGY (14 marks)

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| 1. | How is yeast useful commercially? | 1 |
| 2. | Name the tool used with a tractor for sowing seeds in a field. Mention its advantage. | 1 |
| 3. | Farmers prefer to grow beans and peas in nitrogen deficient soils. Why? | 1 |
| 4. | Differentiate between manures and fertilisers. | 2 |
| 5. | How do vaccines work? | 2 |
| 6. | Define the following terms: | 2 |
| | a) Animal husbandry | |
| | b) Weeding | |
| 7. | Polio vaccines are not given to children suffering from diarrhoea. Why? | 2 |
| 8. | Observe the figure given below and answer the following questions. | 3 |

- i) Name the micro organism and the group to which it belongs.
- ii) Name the food item on which these organisms grow.
- iii) Does it grow well in dry or in moist conditions?
- iv) Is it safe to eat infected food item? Why?

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