

## Standard 7 SCIENCE

Marks: 30  
5×1=5

Time: 1.30 Hours

### I. Choose the most appropriate answer:

- 1) Which of the following is correct?  
 a) 1L = 1cc                      b) 1L = 10cc                      c) 1L = 100cc                      d) 1L = 1000cc
- 2) Suppose a boy is enjoying a ride on a merry go round which is moving with a constant speed of 10m/s. It implies that the boy is  
 a) at rest                                      b) moving with no acceleration  
 c) in accelerated motion                      d) moving with uniform velocity
- 3) The subatomic particle revolve around the nucleus is  
 a) Atom                                      b) Neutron                                      c) Electron                                      d) Proton
- 4) The basic unit of matter is .....  
 a) Element                                      b) Atom                                      c) Molecule                                      d) Electron
- 5) Reproductive part of the plant is  
 a) Root                                      b) Stem                                      c) Leaf                                      d) Flower

### II. Fill in the blanks:

- 6) One astronomical unit is equal to .....
- 7) The rate of change of velocity is .....

2×1=2

### III. State true or false. If false, correct the statement:

- 8) Water is denser than kerosene.
- 9) The electrons are positively charged.
- 10) Ginger is an underground root.

3×1=3

### IV. Match it:

- |              |   |                   |
|--------------|---|-------------------|
| 11) Area     | - | light year        |
| 12) Distance | - | m <sup>3</sup>    |
| 13) Density  | - | m <sup>2</sup>    |
| 14) Volume   | - | kg                |
| 15) Mass     | - | kg/m <sup>3</sup> |

5×1=5

### Answer any 5 questions shortly:

5×2=10

- 16) What is one light year?
- 17) **Analogy:** a) length of scale : metre : : speed of aeroplane : .....  
 b) K : Potassium : : C : .....
- 18) What is centre of gravity?
- 19) Why neutrons are neutral particles?
- 20) Distinguish Isotopes and Isobar
- 21) What is tendril?
- 22) Write notes on phyllode.

### Answer briefly:

1×5=5

- 23) How will you determine the density of a stone using a measuring jar?

(OR)

Draw the atomic structure and explain the position of the subatomic particles.