

## Prefixes and Conversion of Base Units

### Part Two

#### Part I : True/False Questions

1. The prefix "kilo-" means  $10^2$
2. One metre is equal to 100 centimetres.
3. One kilometre is equal to 100 metres.
4. One gram is equal to 100 milligrams.
5. One tonne is equal to 1000 kilograms.
6. The SI unit of mass is kilogram.
7. The SI unit of length is centimetre.
8. A balance is used to measure mass.
9. A thermometer is used to measure temperature.
10. The SI unit of temperature is degree Celsius ( $^{\circ}\text{C}$ ).
11. One hour is equal to 3600 seconds.
12. A stopwatch is used to measure length.
13. Accuracy means how close repeated measurements are to each other.
14. A measurement can be precise but not accurate.
15. In measurement, both number and unit are required to express a physical quantity.

**Part II : Match the Following questions. Put the correct number in the space provided**

**Column A (Concept/Quantity/Prefix)**

**Column B (Unit/Value/Instrument)**

- |                |  |
|----------------|--|
| 1. Kilo-       | ..... a) $10^{-2}$                             |
| 2. Centi-      | ..... b) $10^{-3}$                             |
| 3. Milli-      | ..... c) $10^3$                                |
| 4. 1 tonne     | ..... d) 100 kg                                |
| 5. 1 quintal   | ..... e) 1000 kg                               |
| 6. Length      | ..... f) Metre (m)                             |
| 7. Mass        | ..... g) Balance                               |
| 8. Time        | ..... h) Second (s)                            |
| 9. Temperature | ..... i) Thermometer                           |
| 10. Accuracy   | ..... j) Closeness to true value               |
| 11. Precision  | ..... k) Closeness of repeated<br>Measurements |
| 12. Stopwatch  | ..... l) Measuring time                        |