- D.  $1.0 \times 10^{1}$
- 7. The mass of a box is 2.3 kg. Two marbles of masses 2.15 g and 12.39 g are added to it. The total mass of the box to the correct number of significant figures is:
  - A. 2.340 kg
  - B. 2.3145 kg
  - C. 2.3 kg
  - D. 2.31 kg
- 8. The mass and volume of a body are 4.237g and  $2.5cm^3$ , respectively. The density of material of the body in correct significant figures will be:
  - A.  $1.6048 gcm^{-3}$
  - B.  $1.69 g cm^{-3}$
  - C.  $1.7gcm^{-3}$
  - D.  $1.695 gcm^{-3}$
- 9. The least count is 0.01mm. Two wires of length  $L_1$  and  $L_2$  are measured and they are connected forming a single wire. Then the measurement is,
  - A.  $(L_1 + L_2)m \pm 0.02mm$
  - B.  $(L_1 L_2)m \pm 0.02mm$
  - C.  $(L_1 + L_2)m \pm 0.01mm$
  - D.  $(L_1 L_2)m \pm 0.01mm$
- 10. Precision pertains to all of the following except:
  - A. Reproducibility of measurements.
  - B. Agreement among numerical values.
  - C. The sameness of measurements.
  - D. The closeness of a measurement to an accepted value.
- 11. The  $[M^1L^1T^{-2}]$  is the dimensional formula of;
  - A. Force
  - B. Pressure
  - C. Velocity
  - D. Acceleration
- 12. The Dimension formula for relative density;
  - A.  $[M^1L^1T^{-1}]$
  - B.  $[M^0L^1T^{-1}]$
  - C.  $[M^0L^0T^0]$