

## UNITS – WORKSHEET – D

- 1 Kg/cm<sup>2</sup> pressure is equivalent to  
a) 10.0 bar                      b) 0.1 bar                      c) 1.0 bar                      d) 100.0 bar
- An iron ball and a wooden ball of same radius are released from a height 'h' in vacuum. Which of the two balls would take more time to reach the ground?  
a) Wooden ball                      b) Iron ball  
c) Both would take same time                      d) None of these
- Among the following the derived quantity is  
a) density                      b) mass                      c) length                      d) time
- What is the unit of atmospheric pressure?  
a) Joule                      b) Bar                      c) Knot                      d) Ohm
- 'Farad' is the unit of  
a) capacitance                      b) resistance                      c) conductance                      d) inductance
- A swinging pendulum has its maximum acceleration at  
a) every point on the swing                      b) the bottom of the swing  
c) the two extremities of the swing                      d) no particular portion of the pendulum
- Which one of the following is the unit of measure of the thickness of the ozone layer of the atmosphere?  
a) Poise                      b) Knot                      c) Dobson                      d) Maxwell
- One pikogram is equal to  
a) 10<sup>-12</sup> gram                      b) 10<sup>-6</sup> gram                      c) 10<sup>-9</sup> gram                      d) 10<sup>-15</sup> gram
- Mass is the measure of  
a) force                      b) matter contained                      c) weight                      d) none of these
- Which unit of measurement is multiplied by 0.39 to convert it to 'inches'?  
a) Metre                      b) Millimetre                      c) Centimetre                      d) Decimetre

**ANSWERS**

1. Answer: (c)

Kilogram or Kilogram Force per Square Centimeter ( $\text{kg}/\text{cm}^2$  or  $\text{kgf}/\text{cm}^2$ ) is a pressure unit that has been largely superseded by the SI unit system of pascal units.

It is the metric equivalent of pounds per square inch (psi).  $1 \text{ kg}/\text{cm}^2$  equals 98,066.5 pascals.

2. Answer: (c)

Since the time of fall of both balls in a vacuum does not depend on the mass of balls, hence, the time taken by both balls will be exactly equal.

3. A

4. B

5. A

6. C

7. C

8. A

9. B

10. C