

(8) *Physical Constants :*

- (i)  $h = 6.63 \times 10^{-34} \text{ Js}$
- (ii)  $c = 3 \times 10^8 \text{ m/s}$
- (iii)  $\pi = 3.142$
- (iv)  $g = 9.8 \text{ m/s}^2$
- (v)  $\epsilon_0 = 8.85 \times 10^{-12} \text{ C}^2/\text{Nm}^2$
- (vi)  $\mu_0 = 4\pi \times 10^{-7} \text{ Wb/A}\cdot\text{m}$
- (vii)  $\sigma = 5.67 \times 10^{-8} \text{ W/m}^2\text{K}^4$
- (viii)  $1 \text{ atm} = 1.013 \times 10^5 \text{ N/m}^2$
- (ix)  $R = 8.319 \text{ J/mol}\cdot\text{K}$

## SECTION – A

1. Select and write the correct answers for the following multiple choice type of questions :

[10]

- (i) "If two systems are each in thermal equilibrium with a third system, they are also in thermal equilibrium with each other." This statement refers to :  
(a) zeroth law of thermodynamics  
(b) first law of thermodynamics  
(c) second law of thermodynamics  
(d) Carnot's law
- (ii) In Bernoulli's theorem, which of the following is constant?  
(a) Linear momentum      (b) Angular momentum  
(c) Mass      (d) Energy

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