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Model Questions for Entrance Test for PhD Admissions

Department of Mehchanical and Industrial Production and Engineering

1. General Gas equation is

   a) PV= nRT b) PV=mRT c) PV= 1/3 X nRT d) $PV^n=C$

2. A closed system is one in which

   a) Mass does not cross boundaries of the system, though energy may do so
   b) Mass crosses the boundary but not the energy
   c) Neither mass nor energy crosses the boundaries of the system.
   d) Both energy and mass cross the boundaries of the system.

3. Solids and liquids have

   a) One value of specific heat
   b) two values of specific heat
   c) Three values of specific heat
   d) No value of specific heat

4. According to first law of thermodynamics

   a) Work done by a system is equal to heat transferred by the system
   b) Total internal energy of a system during process remains constant
   c) Internal energy, enthalpy and entropy during a process remain constant
   d) Total energy of a system remains constant.

5. Carnot cycle has maximum efficiency for

   a) Reversible engine b) Irreversible engine
   c) New engine d) Petrol engine