HMT

Question No.	Question
1	Heat exchange between water and air in radiator takes place by: a) Conduction b) Convection c) a) & b) d) radiation
2	The fastest mode of heat transfer a) conduction b) Convection c) Radiation d) All the above
3	Surface condenser of a stream power plant is heat exchange of: a) Parallel flow type b) Cross flow type c) Counter flow type d) Mixed flow type
4	According to Newton's law of cooling, the heat transfer from a hot abody to cold body is directly proportional to the: a) Surface area b) Difference of temperature between the bodies c) Either a or b d) Both a and b
5	Stefan Boltzmann law is applicable for heat and transfer by" a) Radiation b) Conduction c) Convection d) Expansion
6	According to Newton's law of cooling the heat transfer from a hot body to cold body is directly proportional to: a) Surface area b) Difference of temperature between the bodies c) Either A or B d) Both a and b
7	Surface condenser of a steam power plant is heat exchanger of: a) Parallel flow type b) Cross flow type c) Counter flow type d) Mixed flow type
8	The fastest mode of heat transfer is: a) Conduction b) Convection c) Radiation d) All of these
9	Define effectiveness depends on: a) Biot number

	b) Nusselt number c) Reynolds number d) Prandlt number
10	Transfer Coefficient is forced Convection is calculated from the correlation: a) Nu, Pr,Re b) Nu,Pr,Gr c) Nu,Pr,Ma d) Nu,Re,Bi
11	The critical radius of insulation for a circular pipe is: a) Kh b) K/h c) 2K/h d) K-h
12	With usual notation the radiation heat emission from a grey surface is: a) $\sigma T^4/ \epsilon$ b) $\sigma T^3 \epsilon$ c) $\sigma T^4 \epsilon$ d) $\epsilon T^4/ \sigma$
13	With usual notation which of the following combination is true for black body radiation: a) $\alpha = 0, \rho = 0, \overline{c} = 1$ b) $\alpha = 0, \rho = 1, \overline{c} = 1$ c) $\alpha = 1, \rho = 0, \overline{c} = 0$ d) $\alpha = 0, \rho = 0, \overline{c} = 0$
14	In heat exchanger designs LMTD is defined with usual notations as: a) $\frac{\Delta t0-\Delta t1}{\ln 1\frac{\Delta t1}{\Delta t0}}$ b) $\frac{\Delta t0-\Delta t1}{\ln 1\frac{\Delta t0}{\Delta t1}}$ c) $\frac{\Delta t0-\Delta t1}{\ln(\Delta t1-\Delta t0)}$ d) $\frac{\Delta t0-\Delta t1}{\ln(\Delta t0-\Delta t1)}$