

- Q.5 What affects Reynold's number?
 a) Waves b) Bubbles
 c) Turbulent flow d) Foam
- Q.6 Choose type of condenser.
 a) Contact b) Tube
 c) Pitch d) Lankashire
- Q.7 _____ is the poorest conductor of heat.
 a) Gold b) Mercury
 c) Lead d) Metal
- Q.8 By which mode heat is transferred in vacuum?
 a) Conduction b) Evaporation
 c) Boiling d) Melting
- Q.9 How many types of convection are there?
 a) 4 b) 3
 c) 2 d) 1
- Q.10 What is the SI unit of thermal resistance?
 a) KW b) K/W
 c) WK² d) None

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is steady state conduction?

- Q.12 Give the formula for calculating conduction through flat wall.
- Q.13 Give the equation for Nusselt Number.
- Q.14 Define convection.
- Q.15 Mention any two uses of insulators.
- Q.16 Define Stefan boltzman's law
- Q.17 Define perfect black body.
- Q.18 What is the reciprocal of thermal resistance?
- Q.19 What is radiation?
- Q.20 What is Reynold's number?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain radiative heat exchange between black bodies.
- Q.22 What is the difference between free and forced convection?
- Q.23 Mention any 5 points about solar radiation.
- Q.24 What is empirical correlation for free and forced convection?
- Q.25 Define Wein's displacement law and Grey body.
- Q.26 What is grasshof number and peclet number.