

- Q.5 Which of the following is the type of positive displacement pump?
- a) Propeller b) Centrifugal
c) Both a & b d) None of the above
- Q.6 Which of the following is the mode of heat transfer?
- a) Conduction b) Convection
c) Radiation d) All of the above
- Q.7 The moisture content lines in the psychrometric chart are also called as.
- a) Relative humidity lines
b) Specific humidity lines
c) Both a & b
d) None of the above
- Q.8 Which of the following is not an example of recuperator type heat exchanger?
- a) Automobile radiators
b) Condensers
c) Oil heaters for an airplane
d) Chemical factories
- Q.9 Pressure of the fluid is measured by
- a) Conduction b) Lactometer
c) Thermometer d) Manometer
- Q.10 _____ is not a type of heat exchanger flow.
- a) Counter flow type b) Parallel flow type
c) Consecutive flow d) Cross flow type

SECTION-B

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

- Q.11 _____ a type of water tube boiler? (Babcock and Wilcox/Locomotive)
- Q.12 A compressible fluid is one for which density changes with change in temperature, pressure or velocity. (True/False)
- Q.13 _____ is the transfer of heat by electromagnetic waves. (Conduction/Radiation)
- Q.14 Give the name of any two types of evaporator.
- Q.15 _____ is defined as an object's mass per unit volume. (Density/Specific gravity)
- Q.16 The SI unit for the thermal conductivity is _____ (kg/m^3 or $\text{W.m}^{-1} \text{K}^{-1}$)
- Q.17 _____ is the percentage of air between the particles compared to a unit volume of particles. (Porosity/Specific Heat)
- Q.18 An empty space with no particles and no pressure is called a _____. (vacuum/Porosity)
- Q.19 What is the full form of psi?
- Q.20 Both Specific Gravity and _____ and dimensionless quantities. (Reynolds no./Specific heat)

SECTION-C

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

- Q.21 Define the terms thermal conductivity and specific heat
- Q.22 Write the benefits and needs of periodical maintenance.
- Q.23 Give the classification of dryers.