

MODEL QUESTION PAPER

REFRIGERATION AND AIR CONDITIONING (TYPICAL)

1. **Critical pressure is the pressure _____** ☐
 - a) Above which explosion of liquid occurs
 - b) Above which a liquid will remain liquid
 - c) Above which a liquid turns into vapour
 - d) Above which a liquid remains only in the liquid state
2. **Power consumption of screw compressors compared to reciprocating compressors is _____** ☐
 - a) Less
 - b) More
 - c) Equal
 - d) More or equal
3. **A 100% relative humidity of air implies that** ☐
 - a) Wet bulb temperature equals to the dew point temperature
 - b) Dew point temperature equals to the dry bulb temperature
 - c) Saturation temperature equals to the dry bulb temperature
 - d) Dry bulb , Wet bulb, dew point and saturation temperature are equal
4. **One ton of refrigeration implies that the machine has a refrigerating effect (capacity-heat extraction from the system being cooled) equal to** ☐
 - a) 50 kCal/s
 - b) 50 kCal/min
 - c) 50 kCal/hr
 - d) 50 kCal/day
5. **Which of the following additive is primarily used to avoid water freezing at 0° C for usage as secondary refrigerant** ☐
 - a) Hydrochloric acid
 - b) Glycol
 - c) Hydro sulphuric acid
 - d) Carbonic acid
6. **Impeller is a part of** ☐
 - a) Reciprocating compressor
 - b) Centrifugal pump
 - c) Both a and b
 - d) None of a and b
7. **Desert coolers (air coolers) provide more comfort in this hot environment** ☐
 - a) High relative humidity
 - b) Dry climate
 - c) Humid climate
 - d) All the above climates
8. **Name the instrument used to measure air velocity** ☐
 - a) Multimeter
 - b) Anemometer
 - c) Thermometer
 - d) Ammeter
9. **Psychometric chart is used to depict** ☐
 - a) The properties of refrigerant
 - b) The behavior of air under various air conditioning process
 - c) The properties of various lubricants
 - d) The properties of various insulation materials
10. **Which of the following refrigerant has the lowest freezing point** ☐
 - a) R-11
 - b) R-12
 - c) R-22
 - d) Ammonia