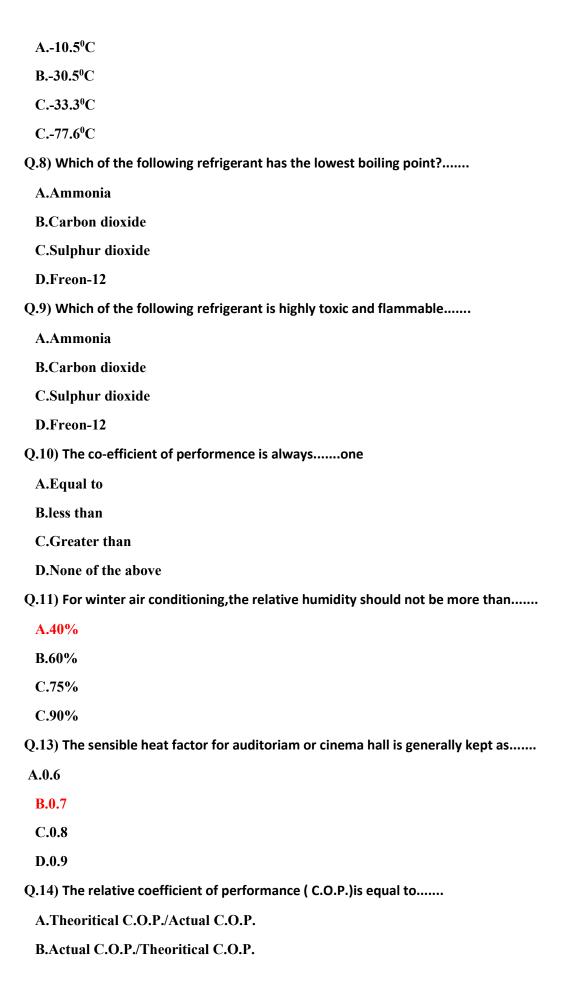
Refrigeration and Air Conditioning (Mock paper)

Semester VI

Q.1) One tonne refrigareting machine means
A.One tonne is the total mass of the machine B.One tonne of refrigerant is used C.One tonne of water can be converted into ice D.One tonne of ice when melts from at 0°C in 24 hours, the refrigeration effect produced is equivalent to 210 kJ/min Q.2) During a refrigeration cycle, heat is rejected by the refrigerant in a
A. CondenserB. CompressureC .EvaporatorD. Expansion valve
Q.3) One tonne of refrigeration is equal to
A.21/kJ/min
B.210/kJ/min
C.420/kJ/min
C.620/kJ/min
Q.4 Air refrigerator works on
A. Carnot cycle
B.Rankine cycle
C.Reversed carnot cycle
D.Bell-Coleman cycle
E.Both C and D
Q. 5) The conditioned air supplied to the room must have the capacity to take up
A.Room sensible heat load only
B.Room latent heat load only
C.Both B and C
Q.6) The refrigeran, commonly used in vapour absorption refrigeration systems, is
A.Sulphur dioxide
B.Ammonia
C.Freon
D.Aqua-ammonia
Q.7) The boiling point of ammonia is



C.Theoritical C.O.P. x Actual C.O.P. D.None of the above Q.15) The sub-cooling in a refrigeration cycle A.Does not alter C.O.P. **B.Increases C.O.P.** C.Decreases C.O.P. C.None of the above Q.16) The highest temperature during the cycle, in a vapour compression system, occures after **A.Compression B.Condensation C.Expansion C.Evaporation** Q.17) In a vapour compression system, the lowest temperature during the cycle occures after...... **A.Compression B.Condensation C.Expansion C.Evaporation** Q.18) In vapour compression refrigeration cycle, the condition of refrigerant is saturated liquid...... A.Before entering the expansion valve B.Before entering the compressor C.After passing through the condenser D.Before passing through the condenser E.After passing through the expansion or throttle valve Q.19) In vapoue compression refrigeration cycle, the condition of refrigerant is very wet vapour...... A.Before entering the expansion valve B.Before entering the compressor C.After passing through the condenser D.Before passing through the condenser E. After passing through the expansion or throttle valve Q.20) In vapour compression refrigeration cycle, the condition of refrigerant is high pressure saturated liquid A.Before entering the expansion valve B.Before entering the compressor C.After passing through the condenser D.Before passing through the condenser E.After passing through the expansion or throttle valve Q.21) In vapour compression refrigeration cycle, the condition of refrigerant is superheated vapour A.Before entering the expansion valve B.Before entering the compressor

- C.After passing through the condenser
- D.Before passing through the condenser
- E.After passing through the expansion or throttle valve
- Q.22) In vapour compression refrigeration cycle, the condition of refrigerant is dry saturated vapour......
 - A.Before entering the expansion valve
 - B.Before entering the compressor
 - C.After passing through the condenser
 - D.Before passing through the condenser
 - E.After passing through the expansion or throttle valve
- Q.23) The most suitable refrigerant of a commercial ice plant......
 - A.Brine
 - B.NH₃
 - C.Freon
 - D.Air
- Q.24)

The refrigerator which does not require compressor is called......

- A. Vapour absorption refrigerator
- B. Vapour compression refrigerator
- C.Electrolux refrigerator
- D.Carnot refrigerator
- Q.25)

In refrigeration cycle, the flow of refrigerant is controlled by

- A.Condenser
- **B.Compressor**
- C.Evaporator
- D.Expansion valve
- D.None of the above