

SECTION-B

Note: Short answer type questions. Attempt any six questions out of Eight questions. (6x5=30)

- Q.11 Explain the DBT and WBT. What is the meaning of the difference between the two temperatures.
- Q.12 What are various humidification methods?
- Q.13 Explain the procedure to use psychrometry chart.
- Q.14 Explain the devices in room air conditioner and its working.
- Q.15 Show how the constant enthalpy lines are shown on psychrometry chart and why?
- Q.16 State and explain Dalton's law of partial pressure.
- Q.17 Give the advantages and disadvantages of central air-conditioning?
- Q.18 Explain the method of calculating heat gain from occupants.

SECTION-C

Note: Long answer type questions. Attempt any one questions out of two questions. (10x1=10)

- Q.19 Explain the working of Round the year air conditioning system with a line diagram, showing all the devices needed.
- Q.20 The atmospheric air has a dry bulb temperature of 30 degree Celsius and wet bulb temperature of 22 degree Celsius. The barometer reads 760 mm of Hg. Find:
 - a) Partial pressure of water vapour
 - b) Relative humidity
 - c) Dew point temperature
 - d) Barometric pressure

No. of Printed Pages : 2
Roll No.

188452

DVOC(Level 5) 1st Sem./ Ref. of Air Cond.

Subject : (5.GV.02) Basics of Air Conditioning

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Very short questions Attempt all ten questions. (10x1=10)

- Q.1 Define psychrometry.
- Q.2 Give the importance of dew point.
- Q.3 Define specific humidity.
- Q.4 What is sensible cooling process?
- Q.5 Define dehumidification.
- Q.6 What do you mean by Latent heat?
- Q.7 Define by-pass factor.
- Q.8 Define human comfort.
- Q.9 What is specific heat?
- Q.10 In case of sensible heat of air, give the relation between efficiency and BPF (By Pass factor).