

## **SECTION-B**

**Note:** Short answer type questions. Attempt any six questions out of Eight questions.  $(6 \times 5 = 30)$

- 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.  $(10 \times 1 = 10)$

- 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:
- Partial pressure of water vapour
  - Relative humidity
  - Dew point temperature
  - Barometric pressure

No. of Printed Pages : 2

188452

Roll No. ....

**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.  $(10 \times 1 = 10)$

- 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).