

## SECTION-B

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

- Q.11 Explain adiabatic chemical dehumidification.(CO-3)  
Q.12 Explain Dalton's law of partial Pressure. (CO-1)  
Q.13 Define air conditioning and explain the factors involve in air conditioning. (CO-5)  
Q.14 How dehumidification of air achieved? (CO-3)  
Q.15 Explain humid specific volume and humid specific heat. (CO-2)  
Q.16 Define saturated air, superheated air and partial pressure. (CO-1)  
Q.17 Explain sensible and latent heat loads. (CO-4)  
Q.18 Differentiate between room sensible heat factor and effective sensible heat factor. (CO-4)

## SECTION-C

**Note:** Long answer type questions. Attempt any one questions out of two questions. (1x10=10)

- Q.19 Explain window type room air conditioner with the help of neat sketch. (CO-5)  
Q.20 Explain different methods of humidification and dehumidification in detail. (CO-3)

(**Note:** Course outcome/CO is for office use only)

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Roll No. ....

**Level 5 / 1st. Sem. / DVOC**

**Ref. & Air Cond.**

**Subject : Basics of Air Conditioning**

Time : 2 Hrs.

M.M. : 50

## SECTION-A

**Note:** Very short answer type questions. All questions are compulsory (10x1=10)

- Q.1 Define Humidity. (CO-1)  
Q.2 Define dry bulb temperature. (CO-1)  
Q.3 During sensible cooling of air, the specific humidity remains \_\_\_\_\_. (CO-2)  
Q.4 What is heating with humidification? (CO-2)  
Q.5 Sensible cooling process is shown by a horizontal line on psychometric chart. (True/False) (CO-3)  
Q.6 Define moist air. (CO-3)  
Q.7 Define grand sensible heat factor. (CO-4)  
Q.8 Effective sensible heat factor is ratio of \_\_\_\_\_ to \_\_\_\_\_. (CO-4)  
Q.9 Define comfort air conditioning. (CO-5)  
Q.10 What is winter air conditioning? (CO-5)