Q.17 Draw psychometric chart. (CO3)

Q.18 Explain sensible heat factor. (CO4)

SECTION-D

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

Q.19 Explain Central air conditioning system with the help of neat sketch. (CO5)

Q.20 Explain the process of humidification and dehumidification on psychometric chart. (CO3)

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Level 5, 1st Sem. / DVOC (Ref. & Air Cond.)
Subject : Basics of Air Conditioning

Time : 2 Hrs. M.M. : 50

SECTION-A

Note: Multiple choice questions. All questions are compulsory (5x1=5)

Q.1 During sensible heating of air, the humidity ratio (CO3)

a) Remains constant b) Decreases

c) Increases d) None of the above

Q.2 The commonly used refrigerant in window air-conditioner is . (CO5)

a) R-12 b) R-13

c) R-22 d) R-717

Q.3 The difference between dry bulb temperature and dew point temperature is called (CO1)

a) Dry bulb depression

b) Wet bulb depression

c) Dew point depression

d) Apparatus dew point

Q.4 One ton of refrigeration is equal to (CO1)

a) 120 KJ/min b) 420 KJ/min

c) 620 KJ/min d) 210KJ/min

Q.5 Room temperature maintained in summer by window type air conditioner is. (CO5)

a) 5°C to 7°C b) 17°C to 19°C

c) 12°C to 15°C d) 23°C to 25°C

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (5x1=5)

Q.6 Define Enthalpy of moist air (CO2)

Q.7 Define absolute humidity (CO2)

Q.8 Define Dry bulb temperature. (CO1)

Q.9 The value of COP should be greater than_____ (CO1)

Q.10 Air without moisture content is called_____ (CO2)

SECTION-C

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

Q.11 Explain Dalton's Law of partial pressure.

Q.12 Explain sensible heating on psychometric chart. (CO1)

Q.13 Explain heat loads and its types. (CO3)

Q.14 Explain any five terms related to psychometry. (CO4)

Q.15 Write a short note on Round the year air conditioning. (CO5)

Q.16 Write any five applications of Air conditioning. (CO1)