



MBZ-001-005605

Seat No. _____

Third Year B. A. (ID) (Sem. VI) (CBCS) Examination

April / May - 2018

Services - III

(Air Conditioning)

Faculty Code : 001

Subject Code : 005605

Time : 2 Hours]

[Total Marks : 50

- Instructions :** (1) All questions are compulsory.
(2) Any ambiguity will be considered as a wrong answer.

- 1 Choose one the following answer : 5
- (1) Heat generated from converted refrigerant from gas to liquid is removed by.....
(A) Compressor (B) Cooling coil
(C) Evaporator (D) Condenser
 - (2) Which of the following does not affect air conditioning of interior space ?
(A) Orientation of room
(B) Occupancy level
(C) Color of internal surfaces
(D) Activity pattern
 - (3) Which of the following affects maximum to air conditioning of interior spaces ?
(A) Material used for furniture
(B) Size and orientation of openings
(C) Activity pattern
(D) Duration of usage of interior space
 - (4) Which of the following type of AC have ducting?
(A) Ceiling mounted split AC
(B) Central plants
(C) Window AC
(D) Cassette type Split AC
 - (5) In which type of AC, compressor and cooling coil remains at same place in room.
(A) Window AC
(B) Ceiling- mounted split AC
(C) Cassette type Split AC
(D) Central plants

- 2** Fill in the blanks : **5**
- (1) A compressor is a mechanical device like a _____
 - (2) Full form of AHU is _____
 - (3) Unit used for air conditioning, '1 Ton = _____ Btu/hr
 - (4) _____ Degrees is a good point for an air conditioner to run at its optimal performance level.
 - (5) If the area of the room is _____ sq-ft then 2 or 2.5 Ton AC is required.
- 3** Attempt the following questions : (any **two**) **20**
- (1) What is window AC? Where it is used? Discuss advantages and disadvantages.
 - (2) Explain in detail cooling cycle of air conditioning.
 - (3) Explain functions of Ducts, Grills and Diffusers.
- 4** Explain in Brief. (any **two**) **10**
- (1) How split AC differs from window AC ?
 - (2) Compare indoor unit and outdoor unit.
 - (3) Compare refrigerant and condensate water.
- 5** Attempt the following short questions : (any **five**) **10**
- (1) What is indoor unit ?
 - (2) What is refrigerant ?
 - (3) What is compressor ?
 - (4) What is condenser ?
 - (5) Which is a better compressor; Rotary or Scroll ? Why ?
 - (6) What is a split air conditioner unit ?
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