



PH-001-005605

Seat No. _____

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

Examination

July - 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 correct answer : 15

1. Refrigerant used for Air conditioning is...
A. R 24 B. R 22
C. R 28 D. R 21
2. Heat that raises the temperature but not the moisture content is called...
A. Latent heat B. Sensible heat
3. The equipment that increases the pressure of the gas is called...
A. Condenser B. Cooling coil
C. Compressor D. Evaporator
4. Unit used for air conditioning, 1 Ton = k Cal.
A. 2500 B. 4500
C. 3000 D. 12000
5. In AC cooling cycle, liquid refrigerant evaporates in a.....
A. Suction line B. Compressor
C. Cooling coil D. Discharge line
6. Heat generated from converted refrigerant from gas to liquid is removed by.....
A. Compressor B. Cooling coil
C. Evaporator D. Condenser

7. 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
8. 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
9. 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
10. 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
11. Moisture in the air accumulates as water around that needs to be drained out.

A. Compressor	B. Suction line
C. Discharge line	D. Evaporator
12. Which of the following is not the criteria for installation of out door unit of AC at coastal areas ?
 - A. Wind direction
 - B. Tonnage of IDU
 - C. Level of ODU from ground
 - D. Anti corrosive material for frame work
13. Which is ideal condition for split AC ?
 - A. Maximum distance between IDU & ODU
 - B. Minimum distance between IDU & ODU with more bends in pipes
 - C. Maximum distance between IDU & ODU with more bends in pipes
 - D. Minimum distance between IDU & ODU with less bends in pipes

14. In which system, air is cooled and conditioned in the plant room and then air is pumped to various parts of building through ducts ?
 - A. Chilled water system
 - B. Direct Expansion (DX) system
 - C. Non-ducted AC system
 - D. Split AC
15. According to recent study, refrigerant used in AC that needs to replace by some other gas because.....
 - A. R22 damages Ozone layer when it leaks
 - B. R22 has very bad odor
 - C. Very costly
 - D. Not easily available

2 Answer the following : (Any three) **15**

1. Compare : Window AC and Split AC
2. Which are the basic branches of air conditioning ? Discuss in detail.
3. What is the principle of air conditioning ? How the air conditioning functions, explain in detail.
4. Explain functions of Ducts, Grills and Diffusers.

3 Attempt the descriptive questions : (Any two) **20**

1. How do we calculate the load to decide the capacity of AC ?
2. How does split AC function ?
3. What is the importance of electronic controls ?
4. How split AC differs from window AC ?
