

UNIT-4 : Air Conditioning

1. Air conditioning is the process of controlling:

- A) Temperature only
- B) Humidity only
- C) Temperature, humidity, air purity, and air motion
- D) Pressure only

2. Comfort air conditioning is intended for:

- A) Machines
- B) Human comfort
- C) Refrigerants
- D) Boilers

3. The comfort temperature range for human beings is generally:

- A) 5–10°C
- B) 22–27°C
- C) 35–40°C
- D) 45–50°C

4. Effective temperature depends on:

- A) Temperature only
- B) Humidity only
- C) Temperature, humidity, and air velocity
- D) Pressure only

5. The main purpose of ventilation is:

- A) Increase humidity
- B) Supply fresh air and remove stale air
- C) Increase temperature
- D) Reduce pressure

6. Air filters are used to:

- A) Increase humidity
- B) Remove dust and impurities
- C) Increase pressure
- D) Reduce airflow

7. Which of the following is a unitary air-conditioning system?

- A) Central AC
- B) Window AC
- C) Chilled Water Plant
- D) Cooling Tower

8. A split air conditioner consists of:

- A) Compressor only
- B) Indoor and outdoor units
- C) Condenser only
- D) Evaporator only

9. In summer air conditioning, air is generally:

- A) Heated and humidified
- B) Cooled and dehumidified
- C) Heated only
- D) Humidified only

10. In winter air conditioning, air is generally:

- A) Cooled and dehumidified
- B) Heated and humidified
- C) Dehumidified only
- D) Cooled only

11. The process of removing moisture from air is:

- A) Humidification
- B) Ventilation
- C) Dehumidification
- D) Filtration

12. The process of adding moisture to air is:

- A) Humidification
- B) Dehumidification
- C) Cooling
- D) Ventilation

13. The device used for air distribution in a room is:

- A) Diffuser
- B) Compressor

- C) Condenser
- D) Expansion Valve

14. Central air-conditioning systems are generally used in:

- A) Small rooms
- B) Houses only
- C) Large buildings and malls
- D) Refrigerators

15. Air-conditioning systems are classified into:

- A) Unitary and Central Systems
- B) Boiler and Turbine Systems
- C) Open and Closed Systems
- D) Simple and Compound Systems

16. The air-conditioning process that reduces both temperature and moisture is:

- A) Sensible Heating
- B) Cooling and Dehumidification
- C) Humidification
- D) Heating and Humidification

17. Which component removes airborne particles from air?

- A) Air Filter
- B) Fan
- C) Compressor
- D) Condenser

18. Air motion in a conditioned space is provided by:

- A) Compressor
- B) Blower/Fan
- C) Condenser
- D) Expansion Valve

19. The quality of air is improved by:

- A) Ventilation and filtration
- B) Heating only
- C) Cooling only
- D) Humidification only

20. An example of comfort air conditioning is:

- A) Home and office AC
- B) Cold storage
- C) Ice plant
- D) Food freezing plant