

Duration: 60 Mins**Total Marks: 50****Q.ID: ITISKILL06900E**

1. Which relay is used in capacitor start, capacitor run (CSR) compressor motor?

- A) Amperage relay B) Voltage relay
C) Current relay D) Thermal relay

Answer: B) Voltage relay

2. Which type of switch is used to control the room air temperature in split AC?

- A) Thermostat switch B) Over load protector
C) Thermal relay D) Manual switch

Answer: A) Thermostat switch

3. Which type fan blade is used with out door unit of split AC?

- A) Propeller B) Guide vane
C) Centrifugal D) Vane

Answer: A) Propeller

4. Which component is replaced to prevent air entering the refrigerator cabinet?

- A) Door hinges B) Thermostat
C) Door paint D) Door gasket

Answer: D) Door gasket

5. Which component actuates the defrost cycle in frost free refrigerator?

- A) Defrost heater B) Timer
C) Relay D) Bimetal thermo

Answer: B) Timer

6. What is the effect of moist air present inside the hermetic system?

- A) Increase the life of compressor B) Capacity of compressor will increase
C) Less wear and tear in compressor D) Harmful to the compressor and motor

Answer: D) Harmful to the compressor and motor

7. Which cooling medium is used to cool the motor of a hermetic reciprocating compressor in AC?

- A) Liquid refrigerant B) Suction vapour
C) Discharge vapour D) Water

Answer: B) Suction vapour

8. 1 Which control device is used to maintain the room air temperature?

- A) Selector switch B) Thermostat
C) OLP D) Relay

Answer: B) Thermostat

9. What is the reason for Compressor does not start ?

- A) Defective fresh air damper B) Defective fan motor
C) Defective oscillation motor D) Defective OLP

Answer: D) Defective OLP

10. Which type of compressor is used in window air conditioner?

- A) Belt drive B) Open type
C) Sealed type D) Swash plate

Answer: C) Sealed type

11. Which components maintain the pressure difference in RAC system?

- A) Condenser and filter B) Evaporator and motor
C) Compressor and expansion device D) Receiver and condenser

Answer: C) Compressor and expansion device

12. What is the value of starting capacitor used for 1.5TR capacity window air conditioner?

- A) 130 to 150 MFD B) 80 to 100 MFD
C) 150 to 160 MFD D) 40 to 60 MFD

Answer: B) 80 to 100 MFD

13. Which is disconnected by centrifugal switch is RSIR motor?

- A) Running winding B) Running capacitor
C) Common winding D) Starting winding

Answer: D) Starting winding

14. Where the thermal bulb is fixed in frost free refrigerator?

- A) Last coil of evaporator B) Discharge line
C) Liquid line D) Last coil of condenser

Answer: A) Last coil of evaporator

15. What is the working condition of component during defrost cycle in frost free refrigerator?

- A) Evaporator fan motor is running
B) Thermostat cuts off
C) Relay activated
D) Compressor is not running

Answer: D) Compressor is not running

16. What is the unit of heat in M.K.S system?

- A) KV (Kilo Volt) B) K.W (Kilo Watt)
C) K.Cal (Kilo Calorie) D) B.T.U (British thermal unit)

Answer: C) K.Cal (Kilo Calorie)

17. Which device equalizes the system pressure in frost free refrigerator?

- A) Compressor B) Capillary tube
C) Condenser D) Evaporator

Answer: B) Capillary tube

18. What is the remedy for the defective OLP in a window air conditioner?

- A) Replace the OLP B) Repair the OLP
C) Repair the heater element D) Remove the parts

Answer: A) Replace the OLP

19. Which control opens the compressor motor circuit in the event of continuous overload?

- A) Bimetal strip B) Spring loaded relief valve
C) Fusible plug D) Thermostat

Answer: A) Bimetal strip

20. Which is a positive displacement compressor?

- A) Water pump B) Oil pump
C) Centrifugal compressor D) Scroll compressor

Answer: D) Scroll compressor

21. Which lubricant oil is used in swash plate of R 134a compressor?

- A) POE B) SAE - 40
C) Servo 20 D) Mineral oil

Answer: A) POE

22. What is the rate of doing work?

- A) Duty B) Force
C) Velocity D) Power

Answer: D) Power

23. What is the atmospheric pressure at sea level?

- A) 1.6 Kg/cm² B) 1.5 Kg/cm²
C) 1.3 Kg/cm² D) 1.033 kg/cm²

Answer: D) 1.033 kg/cm²

24. Which type of evaporator is used in frost free refrigerator?

- A) Plate type B) Finned tube
C) Wire mesh D) Shell and tube

Answer: B) Finned tube

25. Which winding has high inductance value in CSR compressor motor?

- A) Auxiliary winding B) Starting winding
C) Common winding D) Running winding

Answer: D) Running winding

26. Which motor has the least starting torque?

- A) CSR B) RSIR
C) PSC D) CSIR

Answer: B) RSIR

27. Which instrument is used to identify the terminals of a compressor motor?

- A) Anemometer B) Ohm meter
C) Voltmeter D) Ammeter

Answer: B) Ohm meter

28. Which factors produce work?

- A) Force and distance B) Time and distance
C) Force and power D) Force and time

Answer: A) Force and distance

29. What is the function of remote control in split AC?

- A) Pressure setting B) Humidity setting
C) Drain water control D) Transmits signal to operate AC

Answer: D) Transmits signal to operate AC

30. What is the absolute zero temperature in degree centigrade?

- A) 0 Degree Centigrade B) 100 Degree Centigrade
C) 212 Degree Centigrade D) -273 Degree Centigrade

Answer: D) -273 Degree Centigrade

31. What is the cooling capacity of 0.5 TR in BTU / hr?

- A) 6000 B) 18000
C) 24000 D) 12000

Answer: A) 6000

32. Which valve helps to attend mechanical faults without wasting the gas in split AC?

- A) Expansion valve B) Float valve
C) Service valve D) Gate valve

Answer: C) Service valve

33. What is the reason for poor compression?

- A) Less clearance volume
- B) Scratches on the piston surface
- C) Lapped valve plate and reed seat
- D) Good lubrication on the moving parts

Answer: B) Scratches on the piston surface

34. What is the reason for air conditioner running continuously but no cooling effect ?

- A) Refrigerant is more
- B) Over charged oil
- C) Condensation poor
- D) Refrigerant leaked

Answer: D) Refrigerant leaked

35. What is the cause for refrigerator door gap at closing position?

- A) Either side gap less
- B) Uneven floor level
- C) Either side gap more
- D) Uneven condenser level

Answer: B) Uneven floor level

36. What is the function of starting capacitor in CSIR motor?

- A) Gives initial torque
- B) Improves energy efficiency
- C) Corrects power factor
- D) Gives running torque

Answer: A) Gives initial torque

37. What is bottom dead centre in reciprocating compressor cylinder?

- A) The piston starts in cylinder at top
- B) The piston stops in cylinder at top
- C) The piston moves down from the point of cylinder
- D) The piston moves up from the point of cylinder

Answer: D) The piston moves up from the point of cylinder

38. How the difference between the synchronous speed and the actual rotor speed is specified?

- A) Trip
- B) Lag
- C) Slip
- D) Lead

Answer: C) Slip

39. Which component switches ON/OFF the starting winding in RSIR motor?

- A) Thermostat
- B) OLP
- C) Capacitor
- D) Relay

Answer: D) Relay

40. What is the capacity of compressor motor used in 1Ton window air conditioner?

- A) 0.95 HP
- B) 0.50 HP
- C) 0.75 HP
- D) 1.00 HP

Answer: C) 0.75 HP

41. Which instrument is used for measuring heat?

- A) Thermometer
- B) Anemometer
- C) Ammeter
- D) Calorimeter

Answer: D) Calorimeter

42. What is the effect on defective thermostat sensor in split AC?

- A) Unit consumes less power
- B) AC unit runs continuously
- C) Relay malfunctions
- D) Increases super heat

Answer: B) AC unit runs continuously

43. What is the melting temperature of silver brazing rod?

- A) 1250 Degree F
- B) 1300 Degree F
- C) 1120 Degree F
- D) 1200 Degree F

Answer: C) 1120 Degree F

44. Which component is used in frost free refrigerator?

- A) Liquid receiver
- B) Oil separator
- C) Plate coil evaporator
- D) Timer switch

Answer: D) Timer switch

45. Which movement of plunger energises the start winding in relay operation?

- A) Horizontally left
- B) Bottom side
- C) Vertically up
- D) Vertically down

Answer: C) Vertically up

46. Which fan motor speed is used with outdoor unit in split AC?

- A) Double speed
- B) Triple speed
- C) Single speed
- D) Five speed

Answer: C) Single speed

47. Which movement of the scroll compresses the low pressure vapour in scroll compressor?

- A) Reciprocating
- B) Centrifugal
- C) Orbital
- D) Rotating

Answer: C) Orbital

48. What is the barometer reading at sea level in Hg column?

- A) 750 mm
- B) 740 mm
- C) 730 mm
- D) 760 mm

Answer: D) 760 mm

49. Which component belongs to indoor unit of split AC?

- A) Drier
- B) Compressor
- C) Condenser
- D) Evaporator

Answer: D) Evaporator

50. What is the value of running capacitor used for 1.5 TR window air conditioner?

- A) 40 MFD
- C) 80 MFD

- B) 36 MFD
- D) 100 MFD

Answer: B) 36 MFD
