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Score: 43/50 (86.00%)

Code: 3089

1. What is the atmospheric pressure at sea level?

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

2. What is the rate of doing work?

- A) Duty
 B) Force
 C) **Power (Correct)**
 D) Velocity

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

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

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

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

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

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

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

- A) **760 mm (Correct)**
 B) 750 mm
 C) 740 mm
 D) 730 mm

7. Which instrument is used for measuring heat?

- A) Thermometer
 B) Anemometer
 C) **Calorimeter (Correct)**
 D) Ammeter

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

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

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

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

10. Which factors produce work?

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

11. Which is a positive displacement compressor?

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

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

- A) Ammeter
 B) Voltmeter
 C) **Ohm meter (Correct)**
 D) Anemometer

13. Which motor has the least starting torque?

- A) CSIR
 B) CSR
 C) **RSIR (Correct)**
 D) PSC

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

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

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

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

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

- A) Reciprocating
 B) Centrifugal
 C) Rotating
 D) **Orbital (Correct)**

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

- A) Lead
 B) Lag

C) Slip (Correct)

D) Trip

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

A) Running winding

B) Common winding

C) Starting winding (Correct)

D) Running capacitor

19. What is the reason for poor compression?

A) Less clearance volume

B) Scratches on the piston surface (Correct)

C) Lapped valve plate and reed seat

D) Good lubrication on the moving parts

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

A) Capacity of compressor will increase

B) Less wear and tear in compressor

C) Harmful to the compressor and motor (Correct)

D) Increase the life of compressor

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

A) Liquid line

B) Discharge line

C) Last coil of condenser

D) Last coil of evaporator (Correct)

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

A) Thermostat

B) Capacitor

C) Relay (Correct)

D) OLP

23. Which component is used in frost free refrigerator?

A) Plate coil evaporator

B) Liquid receiver

C) Oil separator

D) Timer switch (Correct)

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

A) Plate type

B) Wire mesh

C) Finned tube (Correct)

D) Shell and tube

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

A) Capillary tube (Correct)

B) Compressor

C) Condenser

D) Evaporator

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

A) Evaporator fan motor is running

B) Compressor is not running (Correct)

C) Thermostat cuts off

D) Relay activated

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

A) Bimetal thermo

B) Defrost heater

C) Timer (Correct)

D) Relay

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

A) Vertically up

B) Bottom side (Incorrect)

C) Vertically down

D) Horizontally left

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

A) Uneven floor level (Correct)

B) Either side gap more

C) Either side gap less

D) Uneven condenser level

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

A) Thermostat

B) Door gasket (Correct)

C) Door paint

D) Door hinges

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

A) Compressor

B) Condenser

C) Evaporator (Correct)

D) Drier

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

A) Thermostat

B) Fusible plug

C) Bimetal strip (Correct)

D) Spring loaded relief valve

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

A) Over load protector

B) Thermostat switch (Correct)

C) Manual switch

D) Thermal relay

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

A) Vane

B) Guide vane

C) Propeller (Correct)

D) Centrifugal

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

A) Single speed (Correct)

B) Double speed

C) Triple speed

D) Five speed

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

A) Gives initial torque (Correct)

B) Gives running torque

C) Corrects power factor

D) Improves energy efficiency

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

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

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

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

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

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

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

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

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

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

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

- A) 6000 (Correct)** B) 12000
C) 18000 D) 24000

43. 1 Which control device is used to maintain the room air temperature?

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

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

- A) Voltage relay (Correct)** B) Current relay
C) Thermal relay D) Amperage relay

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

- A) 36 MFD** B) 40 MFD (Incorrect)
C) 80 MFD D) 100 MFD

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

- A) 0.50 HP **B) 0.75 HP**
C) 0.95 HP (Incorrect) D) 1.00 HP

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

- A) Common winding **B) Running winding**
C) Starting winding (Incorrect) D) Auxiliary winding

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

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

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

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

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

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