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Score: 42/50 (84.00%)

Code: 0240

1. What is the atmospheric pressure at sea level?

- A) 1.033 kg/cm<sup>2</sup> (Correct)  
B) 1.3 Kg/cm<sup>2</sup>  
C) 1.5 Kg/cm<sup>2</sup>  
D) 1.6 Kg/cm<sup>2</sup>

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 (Correct)  
B) 1200 Degree F (Incorrect)  
C) 1250 Degree F  
D) 1300 Degree F

4. 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

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

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

6. What is the capacity of doing work?

- A) Work (Incorrect)  
B) Power  
C) Force  
D) Energy (Correct)

7. Which instrument is used for measuring heat?

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

8. Which refrigeration system works on directly by the heat energy?

- A) Jet refrigeration  
B) Mechanical refrigeration  
C) Vapour absorption refrigeration (Correct)  
D) Vapour compression refrigeration

9. 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

10. How the level of heat in a substance is expressed?

- A) Micron  
B) Pressure  
C) Humidity  
D) Temperature (Correct)

11. What is the energy of a body by virtue of its position?

- A) Wind energy  
B) Kinetic energy  
C) Potential energy (Correct)  
D) Electrical energy

12. What is the physical state of ammonia at condenser inlet in vapour absorption system?

- A) Solid  
B) Liquid  
C) Vapour (Correct)  
D) Semi solid

13. Which thermodynamic process the temperature is kept constant?

- A) Isobaric process  
B) Isothermal process (Correct)  
C) Constant volume process  
D) Constant pressure process

14. What is the equivalent absolute scale for centigrade?

- A) Kelvin (Correct)  
B) Celsius  
C) Rankine  
D) Fahrenheit

15. Which method is used to connect the swaged joint in copper tubes?

- A) TIG welding  
B) Silver brazing (Correct)  
C) Lead soldering  
D) Fusion welding

16. 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)

17. What is top dead centre in reciprocating compressor cylinder?

- A) The piston moves down from the point of cylinder (Correct)  
B) The piston moves up from the point of cylinder

C) The piston stops in cylinder at bottom

D) The piston starts in cylinder at bottom

18. Which component controls the thermostat and defrost heater in frost free refrigerator?

A) Thermoheater

**B) Defrost timer (Correct)**

C) Relay

D) OLP

19. What is the advantage of using flux in brazing?

A) Over heating

B) Melting tubes

**C) Prevent Oxidation (Correct)**

D) Chemical reaction

20. Which compressor dome handles high pressure and high temperature vapour?

A) Semi hermetic reciprocating compressor

B) Open type reciprocating compressor

C) Hermetic reciprocating compressor (Incorrect)

**D) Hermetic rotary compressor**

21. What is the absolute pressure of gas in a cylinder, if gauge reads 135.3 p.s.i.?

A) 130 p.s.i.a

B) 140 p.s.i.a

**C) 150 p.s.i.a (Correct)**

D) 160 p.s.i.a

22. Which components are connected by metering device in vapour compression cycle?

**A) Condenser and evaporator (Correct)**

B) Compressor and condenser

C) Evaporator and suction line

D) Compressor and evaporator

23. Which condition is maintained for refrigerant in high side of vapour compression system?

A) Above its critical temperature

**B) Below its critical temperature (Correct)**

C) Above its freezing temperature

D) Below its freezing temperature

24. Which factors produce work?

**A) Force and distance (Correct)**

B) Time and distance

C) Force and power

D) Force and time

25. What is the purpose of accumulator in a refrigerator?

A) Improves oil circulation

B) Prevents surging of refrigerant

C) Avoids hunting of refrigerant (Incorrect)

**D) Prevents liquid flood back to compressor**

26. Which component defrosts in frost free refrigerator?

A) Bulb

**B) Heater (Correct)**

C) Thermostat

D) Capillary tube

27. 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)**

28. What is the cut out temperature of bimetal thermo in frost free refrigerator?

A) 5 Degree Centigrade

**B) 10 Degree Centigrade (Correct)**

C) 20 Degree Centigrade

D) 25 Degree Centigrade

29. Which domestic system uses automatic defrost?

**A) Frost free refrigerator (Correct)**

B) Conventional refrigerator

C) Split air - conditioner

D) Window air - conditioner

30. Which sheet is used to check the tightness of door gasket of a refrigerator?

A) Rubber

**B) Plastic (Correct)**

C) Copper

D) Zinc

31. Which is used to clean the condenser fins of a refrigerator?

**A) Painting brush (Correct)**

B) Diluted acid

C) Soap solution

D) Fin comb

32. How the capacity of refrigerator is expressed?

A) Weightage

B) Tonnage (Incorrect)

C) Wattage

**D) Litres**

33. What is the temperature maintained in the refrigerator freezer?

A) 0 Degree Centigrade

**B) - 15 Degree Centigrade (Correct)**

C) - 45 Degree Centigrade

D) - 65 Degree Centigrade

34. Where the manually defrosted water is stored in refrigerator?

**A) Tray on top of the compressor (Correct)**

B) Bottom of the evaporator

C) Bottom of the condenser

D) Top of the freezer

35. Which component is used in frost free refrigerator?

A) Plate coil evaporator

B) Liquid receiver

C) Oil separator

**D) Timer switch (Correct)**

36. Which device protects the compressor motor from drawing more current?

**A) OLP (Correct)**

B) Relay

C) Thermostat

D) Door switch

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

**A) Capillary tube**

B) Compressor (Incorrect)

C) Condenser

D) Evaporator

38. Which method of refrigeration system is adopted in frost free refrigerator?

**A) Vapour compression (Correct)**

B) Vapour absorption

C) Water vapour

D) Evacuating

39. Which electrical control cuts off heating element in frost free refrigerator?

**A) Bimetal thermo**

B) Thermostat (Incorrect)

C) Relay

D) Timer

40. 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

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

A) Bimetal thermo

B) Defrost heater

**C) Timer (Correct)**

D) Relay

42. Which component is turned off while defrost heater is energised?

A) Cabinet bulb

**B) Evaporator fan (Correct)**

C) Thermostat sensor

D) Over load protector

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

**A) Vertically up (Correct)**

B) Bottom side

C) Vertically down

D) Horizontally left

44. Which is connected in series with start capacitor in motor circuit?

**A) Starting winding (Correct)**

B) Common terminal

C) Running Terminal

D) Running winding

45. Why frost free model refrigerator takes less freezing time of products?

**A) Forced air circulation (Correct)**

B) Natural air circulation

C) Low temperature setting

D) High temperature setting

46. What is the reason if refrigerator runs normally but no cooling effect?

**A) Leakage of refrigerant (Correct)**

B) Condenser block

C) Filter block

D) Over charge

47. What is the effect of contamination in refrigeration system?

A) High heating

**B) Poor cooling (Correct)**

C) Low pressure

D) Low humidity

48. 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

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

A) Thermostat

**B) Door gasket (Correct)**

C) Door paint

D) Door hinges

50. What is the result if discharge reed is broken in open type compressor?

A) Poor pumping (Incorrect)

B) More pumping

C) Oil pumping

**D) No pumping**