

Duration: 60 Mins

Total Marks: 40

Q.ID: ITISKILL1774QP

1. What is smothering in fire extinguishing?

- A) Flashing with dry powder B) Use water to lower temperature
 C) Pouring of CTC D) Cutting off oxygen supply to fire

Answer: D) Cutting off oxygen supply to fire

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

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

Answer: C) Door gasket

3. What is effect of compression process on refrigerant vapour?

- A) Cool the vapour above saturation B) Decrease the pressure and temperature
 C) Heat the vapour below saturation D) Increase the pressure and temperature

Answer: D) Increase the pressure and temperature

4. What is the formula to find out the synchronous speed of induction motor?

- A) $N_s = (150P/f)$ B) $N_s = (120P/f)$
 C) $N_s = (150f/P)$ D) $N_s = (120f/P)$

Answer: D) $N_s = (120f/P)$

5. Which material is used to clean oil and grease on the floor?

- A) Cotton waste B) Saw dust
 C) Air D) Water

Answer: B) Saw dust

6. Which tool is used for trimming the edges of a sheet metal cylinder?

- A) Tube cutter B) Scissors
 C) Straight snips D) Bent snips

Answer: D) Bent snips

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

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

Answer: B) Compressor and expansion device

8. Which type of compressor is used for domestic refrigerator?

- A) Open type compressor B) Hermetic compressor
 C) Semi sealed compressor D) Centrifugal compressor

Answer: B) Hermetic compressor

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

- A) Avoids hunting of refrigerant B) Prevents surging of refrigerant
 C) Improves oil circulation D) Prevents liquid flood back to compressor

Answer: D) Prevents liquid flood back to compressor

10. What is the material composition of a Tin man s solder?

- A) 50% Tin 50% Zinc B) 50% Tin 50% Bronze
 C) 50% Tin 50% lead D) 50% Zinc 50% lead

Answer: C) 50% Tin 50% lead

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

- A) 0 Degree Centigrade B) - 65 Degree Centigrade
 C) - 15 Degree Centigrade D) - 45 Degree Centigrade

Answer: C) - 15 Degree Centigrade

12. What is the capacity of doing work?

- A) Energy B) Work
 C) Power D) Force

Answer: A) Energy

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

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

Answer: D) -273 Degree Centigrade

14. Which medium is used to extinguish Class - A fire?

- A) Water B) Foam
 C) Dry powder D) CO₂

Answer: A) Water

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

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

Answer: D) Orbital

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

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

Answer: A) Vertically up

17. Which is disconnected by centrifugal switch in RSIR motor?

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

Answer: D) Starting winding

18. Which capacitor is disconnected by relay in capacitor start and induction run motor?

- A) Running capacitor
- B) Starting capacitor
- C) Boosting capacitor
- D) Power factor correction capacitor

Answer: B) Starting capacitor

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

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

Answer: D) 1120 Degree F

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

- A) 25 Degree Centigrade
- B) 10 Degree Centigrade
- C) 20 Degree Centigrade
- D) 5 Degree Centigrade

Answer: B) 10 Degree Centigrade

21. Which is the point angle of a twist drill used for zinc alloy?

- A) 125 Degree
- B) 100 Degree
- C) 90 Degree
- D) 118 Degree

Answer: D) 118 Degree

22. Which law is related to the constant PV at constant T?

- A) Renaults law
- B) Pascal s law
- C) Boyles law
- D) Charles s law

Answer: C) Boyles law

23. What is the angle of the tip of centre punch?

- A) 120 Degree
- B) 30 Degree
- C) 60 Degree
- D) 90 Degree

Answer: D) 90 Degree

24. What is the least count of a metric micrometer?

- A) 000.1 mm
- B) 0.01 mm
- C) 0.1 mm
- D) 0.001 mm

Answer: B) 0.01 mm

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

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

Answer: A) Potential energy

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

- A) 140 p.s.i.a
- B) 160 p.s.i.a
- C) 130 p.s.i.a
- D) 150 p.s.i.a

Answer: D) 150 p.s.i.a

27. What is the use of capacitor in PSC operated induction motor?

- A) Cancel the starting torque
- B) Decrease the starting torque
- C) Decrease the power factor
- D) Improve the power factor

Answer: D) Improve the power factor

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

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

Answer: B) OLP

29. What is the reason for poor compression?

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

Answer: A) Scratches on the piston surface

30. What is the use of suction baffle in a scroll compressor?

- A) Increase noise of compressor
- B) Reduce noise of compressor
- C) Reduce capacity of compressor
- D) Allow liquid to enter into compressor

Answer: B) Reduce noise of compressor

31. Which tool is used for bending long sheet metal?

- A) Bench vice
- B) Folding bar
- C) Shear
- D) Hand vice

Answer: B) Folding bar

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

- A) Compressor and evaporator
- B) Condenser and evaporator
- C) Compressor and condenser
- D) Evaporator and suction line

Answer: B) Condenser and evaporator

33. Which is used to connect the rotor bars in 3phase squirrel cage induction motor?

- A) Screw
- B) End ring
- C) Nut and bolt
- D) Welded

Answer: B) End ring

34. What is the equivalent absolute scale for centigrade?

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

Answer: B) Kelvin

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

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

Answer: D) K.Cal (Kilo Calorie)

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

- A) Melting tubes
- B) Over heating
- C) Chemical reaction
- D) Prevent Oxidation

Answer: D) Prevent Oxidation

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

- A) Below its critical temperature
- C) Above its critical temperature

- B) Below its freezing temperature
- D) Above its freezing temperature

Answer: A) Below its critical temperature

38. Which extinguishes the fire of flammable liquids?

- A) Water
- B) CO₂
- C) Air
- D) Oil

Answer: B) CO₂

39. Where the refrigerant vapour is compressed in scroll compressor?

- A) Eccentric and cylinder
- B) Fixed and reciprocating scroll
- C) Between fixed and orbiting scrolls
- D) Crank and connecting rod

Answer: C) Between fixed and orbiting scrolls

40. What is the rate of doing work?

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

Answer: B) Power