

Duration: 60 Mins

Total Marks: 40

ID: ITISKILL1774QP

Student Name: _____ Roll No: _____

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

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

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

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

3. What is the capacity of doing work?

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

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

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

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

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

6. What is the rate of doing work?

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

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

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

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

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

9. Which extinguishes the fire of flammable liquids?

- A) CO₂ B) Air
C) Water D) Oil

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

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

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

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

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

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

13. 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) 150 p.s.i.a
C) 130 p.s.i.a D) 160 p.s.i.a

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

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

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

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

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

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

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

- A) Running capacitor B) Common winding

- C) Running winding D) Starting winding

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

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

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

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

20. 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) $N_s = (120f/P)$

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

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

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

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

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

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

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

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

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

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

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

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

27. 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

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

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

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

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

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

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

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

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

32. 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

33. What is the equivalent absolute scale for centigrade?

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

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

- A) Below its critical B) Below its freezing
temperature temperature
C) Above its critical D) Above its freezing
temperature temperature

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

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

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

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

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

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

38. What is the reason for poor compression?

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

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

- A) 120 Degree
- C) 90 Degree

- B) 30 Degree
- D) 60 Degree

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

- A) Relay
- C) Thermostat

- B) OLP
 - D) Door switch
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