

Duration: 60 Mins

Total Marks: 31

ID: ITISKILL3915GM

Student Name: _____ Roll No: _____

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

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

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

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

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

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

4. 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 |

5. What is the capacity of doing work?

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

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

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

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

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

8. 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 |

9. Which thermodynamic process the temperature is kept constant?

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

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

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

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

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

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

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

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

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

14. Which instrument is used for measuring heat?

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

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

- | | |
|----------|------------------|
| A) OLP | B) Thermoheater |
| C) Relay | D) Defrost timer |

16. What is the boiling point of pure water in centigrade scale?

- | | |
|--------------------------|--------------------------|
| A) 212 Degree Centigrade | B) 0 Degree Centigrade |
| C) 32 Degree Centigrade | D) 100 Degree Centigrade |

17. What is the atmospheric pressure at sea level?

- | | |
|---------------------------|---------------------------|
| A) 1.5 Kg/cm ² | B) 1.3 Kg/cm ² |
|---------------------------|---------------------------|

C) 1.033
kg/cm²

D) 1.6 Kg/cm²

18. What is the equivalent absolute scale for centigrade?

A) Celsius

B) Kelvin

C) Rankine

D) Fahrenheit

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

A) Temperature

B) Humidity

C) Pressure

D) Micron

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

A) Chemical reaction

B) Prevent Oxidation

C) Melting tubes

D) Over heating

21. What is the rate of doing work?

A) Force

B) Velocity

C) Duty

D) Power

22. 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

23. Which factors produce work?

A) Time and distance

B) Force and power

C) Force and distance

D) Force and time

24. Which instrument is used to measure atmospheric pressure?

A) Manometer

B) Hygrometer

C) Barometer

D) Hydrometer

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

A) The piston stops in cylinder at top

B) The piston moves up from the point of cylinder

C) The piston starts in cylinder at top

D) The piston moves down from the point of cylinder

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

A) Semi hermetic reciprocating compressor

B) Open type reciprocating compressor

C) Hermetic rotary compressor

D) Hermetic reciprocating compressor

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

A) Condenser and filter

B) Compressor and expansion device

C) Evaporator and motor

D) Receiver and condenser

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

A) Semi solid

B) Vapour

C) Liquid

D) Solid

29. Which two components do the compressor function in vapour absorption system?

A) Generator and evaporator

B) Generator and condenser

C) Generator and separator

D) Generator and absorber

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

A) The piston stops in cylinder at bottom

B) The piston moves down from the point of cylinder

C) The piston moves up from the point of cylinder

D) The piston starts in cylinder at bottom

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

A) Fusion welding

B) Lead soldering

C) TIG welding

D) Silver brazing