

Duration: 60 Mins

Total Marks: 31

ID: ITISKILL3701YE

Student Name: _____	Roll No: _____
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1. Which thermodynamic process the temperature is kept constant?

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

- A) Charles s law
C) Pascal s law

- B) Boyles law
D) Renaults law

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

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

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

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

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

- A) Generator and separator B) Generator and condenser
C) Generator and absorber D) Generator and evaporator

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8. Which instrument is used to measure atmospheric pressure?

- A) Hygrometer C) Hydrometer
B) Manometer D) Barometer

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

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

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

17. Which instrument is used for measuring heat?

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

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

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

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

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

20. What is the atmospheric pressure at sea level?

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

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

- A) Hermetic rotary compressor
C) Open type reciprocating compressor
- B) Hermetic reciprocating compressor
D) Semi hermetic reciprocating compressor

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

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

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

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

24. What is the rate of doing work?

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

25. What is the equivalent absolute scale for centigrade?

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

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

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

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

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

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

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

29. What is the capacity of doing work?

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

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

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

31. Which factors produce work?

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