

12:33 PM

December 2025

GOVT ITI PERDUR

Question Paper

Duration: 60 Mins

Total Marks: 30

ID: ITISKILL9514AD

Student Name: _____ Roll No: _____

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

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

2. What is the equivalent absolute scale for centigrade?

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

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

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

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

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

5. What is the rate of doing work?

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

6. What is the atmospheric pressure at sea level?

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

7. Which thermodynamic process the temperature is kept constant?

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

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

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

9. 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 D) 160 p.s.i.a

10. Which factors produce work?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

22. Which instrument is used to measure atmospheric pressure?

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

23. What is the capacity of doing work?

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

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

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

25. Which instrument is used for measuring heat?

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

26. 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

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

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

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

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

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

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

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

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