Exam

Q. ID: ITISKILL8609QE

January 2026

Answer Key

Duration: 15 Mins **Total Marks: 31** **Q.ID: ITISKILL8609QE**

1. Which factors produce work?

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

Answer: D) Force and distance

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

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

Answer: B) 760 mm

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

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

Answer: D) The piston moves up from the point of cylinder

4. Which thermodynamic process the temperature is kept constant?

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

Answer: A) Isothermal process

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

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

Answer: A) Prevents liquid flood back to compressor

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

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

Answer: B) Increase the pressure and temperature

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

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

Answer: C) Prevent Oxidation

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

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

Answer: C) 1120 Degree F

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

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

Answer: C) Condenser and evaporator

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

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

Answer: B) K.Cal (Kilo Calorie)

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

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

Answer: C) Below its critical temperature

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

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

Answer: D) Generator and absorber

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

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

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

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

Answer: C) Vapour

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

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

Answer: D) 100 Degree Centigrade

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

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

Answer: B) Silver brazing

17. What is the equivalent absolute scale for centigrade?

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

Answer: C) Kelvin

18. What is the atmospheric pressure at sea level?

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

Answer: B) 1.033 kg/cm²

19. What is the capacity of doing work?

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

Answer: B) Energy

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

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

Answer: B) Hermetic rotary compressor

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

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

Answer: C) Compressor and expansion device

22. Which instrument is used for measuring heat?

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

Answer: D) Calorimeter

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

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

Answer: D) Defrost timer

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

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

Answer: C) Boyles law

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

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

Answer: D) Vapour absorption refrigeration

26. What is the rate of doing work?

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

Answer: B) Power

27. Which instrument is used to measure atmospheric pressure?

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

Answer: A) Barometer

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

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

Answer: C) Potential energy

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

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

Answer: A) -273 Degree Centigrade

30. 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 stops in cylinder at bottom
D) The piston moves up from the point of cylinder

Answer: A) The piston moves down from the point of cylinder

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

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

Answer: A) Temperature