

Student: Pavan

Score: 120/200 (60.00%)

Code: 0185

1. Which instrument is used to measure atmospheric pressure?

- A) Hygrometer  
C) Manometer  
B) Hydrometer  
**D) Barometer (Correct)**

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

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

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

- A) 760 mm (Correct)**  
C) 740 mm  
B) 750 mm  
D) 730 mm

4. Which instrument is used for measuring heat?

- A) Thermometer  
**C) Calorimeter (Correct)**  
B) Anemometer  
D) Ammeter

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

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

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

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

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

- A) Wind energy  
**C) Potential energy**  
B) Kinetic energy  
D) Electrical energy (Incorrect)

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

- A) Solid  
**C) Vapour (Correct)**  
B) Liquid  
D) Semi solid

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

- A) Boyles law (Correct)**  
B) Charles s law

C) Pascal s law

D) Renaults law

10. Which thermodynamic process the temperature is kept constant?

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

11. What is the equivalent absolute scale for centigrade?

- A) Kelvin**  
C) Rankine  
B) Celsius  
D) Fahrenheit (Incorrect)

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

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

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

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

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

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

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

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

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

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

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

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

18. Which factors produce work?

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

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

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

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

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

21. Which part connects the piston with small end of connecting rod in a reciprocating compressor?

- A) **Piston pin (Correct)**      B) Piston bolt  
C) Piston rings      D) Piston sleeve

22. Which winding is made of thin wire in single phase motor?

- A) Main      B) Series  
C) **Starting (Correct)**      D) Running

23. Which instrument is used to identify the terminals of a compressor motor?

- A) Ammeter      B) Voltmeter  
C) **Ohm meter (Correct)**      D) Anemometer

24. Which motor has the least starting torque?

- A) CSIR      B) CSR (Incorrect)  
C) **RSIR**      D) PSC

25. Which motor has the least starting torque?

- A) CSIR      B) CSR  
C) **RSIR (Correct)**      D) PSC

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

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

27. What is the revolving part of induction motor?

- A) Stator      B) **Rotor (Correct)**  
C) Relay      D) Winding

28. Which valve is closed during compression stroke in reciprocating compressor?

- A) Service valve (Incorrect)      B) Liquid line valve  
C) Discharge valve      D) **Suction valve**

29. Which gas is used for pressure testing the compressor dome?

- A) Air      B) Oxygen  
C) **Nitrogen**      D) Refrigerant (Incorrect)

30. What is the method of starting a 3 phase slip ring induction motor?

- A) With starting relay      B) Using starting capacitor  
C) With running capacitor      D) **Adding resistance to rotor winding (Correct)**

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

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

32. What is the use of a starting capacitor in single phase induction motor?

- A) Improve power factor      B) **Increase starting torque**  
C) Decrease starting torque      D) Dis connect starting winding (Incorrect)

33. What is the advantage of a hermetically sealed compressor in refrigerator?

- A) **Silent operation**      B) Easily serviceable (Incorrect)  
C) Noise is more      D) Cost is high

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

- A) Reciprocating      B) Centrifugal  
C) Rotating      D) **Orbital (Correct)**

35. How to change the direction of rotation in 3 Phase induction motor?

- A) Change neutral      B) Change all phase  
C) **Change any two phase (Correct)**      D) Change the winding only

36. How the difference between the synchronous speed and the actual rotor speed is specified?

- A) Lead      B) Lag

**C) Slip (Correct)**

D) Trip

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

A) Decrease the starting torque

B) Cancel the starting torque (Incorrect)

**C) Improve the power factor**

D) Decrease the power factor

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

**A) Reduce noise of compressor (Correct)**

B) Increase noise of compressor

C) Reduce capacity of compressor

D) Allow liquid to enter into compressor

39. What is the reason for poor compression?

A) Less clearance volume

**B) Scratches on the piston surface (Correct)**

C) Lapped valve plate and reed seat

D) Good lubrication on the moving parts

40. What is the effect of moist air present inside the hermetic system?

A) Capacity of compressor will increase

B) Less wear and tear in compressor

**C) Harmful to the compressor and motor (Correct)**

D) Increase the life of compressor

41. What is the unit of electric current?

**A) Ampere (Correct)**

B) Farad

C) Ohm

D) Volt

42. What is the unit of capacitance?

A) Volt

B) Ampere (Incorrect)

**C) Farad**

D) Coulomb

43. Which tool is used for skinning the insulation of cables and cleaning the wire surface?

A) Hacksaw

B) Firmer chisel (Incorrect)

**C) Electrician's knife**

D) Combination pliers

44. Which power supply has the fixed polarity?

**A) Direct current**

B) Signal voltage

C) Signal ripples (Incorrect)

D) Alternating current

45. What is the unit of electrical energy?

A) Volt

**B) Watt (Correct)**

C) Ampere

D) Kilo watt hour

46. How electrons flow in a battery circuit?

A) Phase to earth

B) Phase to neutral

C) Positive to negative polarity

**D) Negative polarity to positive polarity (Correct)**

47. Which material is used for making disc in energy meter?

**A) Aluminium (Correct)**

B) Copper

C) Brass

D) Zinc

48. Which property limits the flow of electrons in an electrical circuit?

**A) Voltage (Correct)**

B) Current

C) Resistance

D) Conductance

49. Which joint is made in either single or multi - strand conductors?

**A) Rat tail joint (Correct)**

B) Scarfed joint

C) Britannia joint

D) Western union joint

50. Which type of 1-? motor has high starting torque?

A) Permanent capacitor

B) Resistance start induction run (Incorrect)

**C) Capacitor start and capacitor run**

D) Induction start and induction run

51. Which winding has more inductance in refrigerator compressor motor?

**A) Run (Correct)**

B) Start

C) Common

D) Start and common

52. Which meter indicates the true power directly in an electrical circuit?

A) Ammeter

B) Ohm meter

**C) Watt meter (Correct)**

D) Volt meter

53. What is the supply voltage if a current of 2 ampere flows through 10 Ohm resistor in a circuit?

**A) 20 Volt (Correct)**

B) 45 Volt

C) 55 Volt

D) 65 Volt

54. Which law relates to voltage, current and resistance in an electrical circuit?

**A) Ohm s law**

B) Lenz s law

C) Newton s law (Incorrect)

D) Faraday s law

55. What is the rotor speed with respect to stator field speed in an induction motor?

**A) Less than the stator speed (Correct)**

B) More than the stator speed

C) Equal to the stator speed

D) More than the fly wheel

56. What is the load resistance in an electrical circuit, if

current,  $I = 2$  amp and supply,  $V = 10$  volt?

- A) 2 Ohms  
C) 4 Ohms  
B) 3 Ohms (Incorrect)  
D) 5 Ohms

57. What is the condition of compressor motor if Ohm meter reads infinity across common and start terminals?

- A) Running winding open  
C) Starting winding shorted  
B) Starting winding open  
D) Running winding shorted (Incorrect)

58. What is the effect of pouring water on electrodes resistance in earth pit?

- A) Decreases  
C) Equalises (Incorrect)  
B) Increases  
D) Remains same

59. What is the total resistance if two resistors R1 and R2 are connected in series?

- A)  $(R1 - R2)$  Ohms  
C)  $(R1 \times R2)$  Ohms  
B)  $(R1 + R2)$  Ohms  
D)  $(R1 / R2)$  Ohms (Incorrect)

60. Which is the common terminal while Ohm meter reads AB = 10 Ohm, AC = 15 Ohm and BC = 25 Ohm if the motor terminals are A, B and C?

- A) Terminal A (Correct)  
C) Terminal C  
B) Terminal B  
D) Earth Terminal

61. What are the passive components used in electronic circuits?

- A) Resistors, capacitors and inductors (Correct)  
C) Semi conductors and transistors  
B) Transformers and semiconductors  
D) Transistors, diodes and SCRs

62. What is the unit of inductance?

- A) Ohm  
C) Farad (Incorrect)  
B) Henry  
D) Ampere

63. How many diodes are required for making a bridge rectifier circuit?

- A) One  
C) Four (Correct)  
B) Two  
D) Three

64. Which material is used for making ICs?

- A) Silicon (Correct)  
C) Platinum  
B) Carbon  
D) Mild steel

65. What is the name of electronic circuit?

- A) Bridge rectifier (Correct)  
C) Full wave rectifier  
B) Half wave rectifier  
D) Quarter wave rectifier

66. What is the unit of capacitance used with single phase induction motors in domestic RAC system?

- A) Kilo ohm  
C) Milli henry  
B) Microfarad (Correct)  
D) Milli ampere

67. Which semiconductor material is used to make diodes?

- A) Steel  
C) Copper  
B) Silicon (Correct)  
D) Aluminium

68. Which type of diode is used for communication circuits?

- A) Signal diode (Correct)  
C) Rectifier diode  
B) Zener diode  
D) Switching diode

69. Which component is used as a switching device in electronic circuit?

- A) SCR (Correct)  
C) Capacitor  
B) Diode  
D) Zener diode

70. What is the name of active component used in electronic circuit?

- A) Transistor  
C) DIAC  
B) TRIAC  
D) SCR (Incorrect)

71. What are the active components used in electronic circuits?

- A) Transformers and inductors  
C) Semi conductors and transformers  
B) Transistors, diodes and SCRs (Correct)  
D) Resistors, capacitors and inductors

72. Which device maintains a constant DC output?

- A) Load regulators  
C) Current limiters  
B) Rectifier circuits (Incorrect)  
D) Voltage regulators

73. Which electronic component is the voltage regulator?

- A) Zener diode  
C) Triac (Incorrect)  
B) Transistor  
D) Diac

74. What is the reverse break down voltage range of zener diode?

- A) 0.1 to 0.5 volt  
C) 3 to 18 volt (Correct)  
B) 0.5 to 1 volt  
D) 1 to 3 volt

75. Which material is used for making zener diode?

- A) Lead  
C) Titanium  
B) Silicon  
D) Platinum (Incorrect)

76. How many terminals are there in a Silicon Controlled Rectifier (SCR)?

- A) One  
C) Four

- B) Two  
**D) Three (Correct)**

- A) Oil  
C) Water

- B) Foam  
**D) Halon (Correct)**

77. What is the method of converting AC to DC power supply with two diodes and a step down transformer?

- A) Bridge rectifier  
C) Half wave rectifier
- B) Full wave rectifier**  
D) Medium wave rectifier  
(Incorrect)

78. Which application uses the digital ICs?

- A) Amplifier  
C) Tuned circuits
- B) Logic gates (Correct)**  
D) Voltage regulator

79. What is the process involved for converting AC to DC power supply?

- A) Inversion (Incorrect)  
C) Convection
- B) Regulation  
**D) Rectification**

80. How the maximum reverse voltage across the diode is termed in reverse biased condition?

- A) Diode voltage  
**C) Peak inverse voltage (Correct)**
- B) Ripple frequency  
D) Peak rectification voltage

81. Which extinguishes the fire of flammable liquids?

- A) Water  
**C) CO<sub>2</sub> (Correct)**
- B) Air  
D) Oil

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

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

83. Which metal is alloyed with zinc to make brass?

- A) Iron  
C) Bronze
- B) Copper (Correct)**  
D) Aluminium

84. Which materials are used to make mallets?

- A) Wood, cast iron  
C) Rubber, brass
- B) Wood, rubber**  
D) Wood, brass (Incorrect)

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

- A) 90 Degree  
**C) 118 Degree**
- B) 100 Degree (Incorrect)  
D) 125 Degree

86. Which extinguishes the fire on electrical equipment?

87. Which tool is used for bending, seaming and forming of sheet metal?

- A) Bench vice  
**C) Stakes (Correct)**
- B) Hand vice  
D) Shear

88. What is the equivalent of one micron in millimeter?

- A) 0.0001 mm  
C) 0.01 mm
- B) 0.001 mm (Correct)**  
D) 0.1 mm

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

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

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

- A) 30 Degree  
**C) 90 Degree (Correct)**
- B) 60 Degree  
D) 120 Degree

91. Which file is used for filing wood?

- A) Double cut file  
**C) Rasp cut file (Correct)**
- B) Single cut file  
D) Smooth file

92. Which tool is used for tightening the odd size bolts and nuts?

- A) Socket set  
C) Ring spanner
- B) Nose pliers  
**D) Adjustable spanner (Correct)**

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

- A) CO<sub>2</sub> (Incorrect)  
**C) Water**
- B) Foam  
D) Dry powder

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

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

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

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

96. What is smothering in fire extinguishing?

- A) Pouring of CTC  
C) Use water to lower temperature
- B) Flashing with dry powder  
**D) Cutting off oxygen supply to fire (Correct)**

97. Which instrument is used to measure pressure on both high and low side of the system?

- A) Pipe manifold  
C) Pressure manifold  
**B) Gauge manifold (Correct)**  
D) Instrument manifold

98. What is the name of the caliper having one leg with an adjustable divider point and other leg is bent?

- A) Jenny Caliper**  
C) Outside caliper  
B) Inside Caliper  
D) Spring joint caliper (Incorrect)

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

- A) 0.1 mm  
C) 0.001 mm  
**B) 0.01 mm (Correct)**  
D) 000.1 mm

100. What is starving in extinguishing the fire?

- A) Adding fuel  
C) Clearing the hazards  
**B) Removal of fuel (Correct)**  
D) Stop the supply of oxygen

101. Which property is desirable for an ideal refrigerant?

- A) High boiling point (Incorrect)  
C) High specify volume  
B) High freezing point  
**D) High latent heat value**

102. What is the category of R 290 refrigerant?

- A) Halocarbons  
**C) Hydrocarbons**  
B) Azeotropes  
D) Organic compounds (Incorrect)

103. What type of heat is absorbed by primary refrigerant?

- A) Total heat (Incorrect)  
C) Specific heat  
**B) Latent heat**  
D) Sensible heat

104. Which is the green house gas?

- A) Oxygen of atmospheric air  
C) Helium of atmospheric air  
**B) Chlorofluoro carbon in air (Correct)**  
D) Neon of atmospheric air

105. Which gas is universally taken as the basic reference for GWP?

- A) SO<sub>2</sub>  
C) NH<sub>3</sub>  
**B) CO<sub>2</sub>**  
D) AIR (Incorrect)

106. What is the cylinder colour code of R 22 refrigerant?

- A) White  
C) Orchid (Incorrect)  
**B) Green**  
D) Orange

107. Where does the ozone layer exist in atmosphere?

- A) Mesosphere  
C) Ionosphere  
**B) Stratosphere (Correct)**  
D) Exosphere

108. Which is the inorganic refrigerant?

- A) R 170  
C) R 630  
B) R 500  
**D) R 717 (Correct)**

109. How the refrigerants are classified based on heat absorption by latent and sensible heat?

- A) Primary and secondary (Correct)**  
C) Zeotropic and azeotropic  
B) Organic and inorganic  
D) Halocarbons and hydrocarbons

110. Which is the numerical designation of ammonia refrigerant?

- A) 700 + (Molecular mass of NH<sub>3</sub>) = 717 (Correct)**  
C) 700 + (Molecular mass of NH<sub>3</sub>) = 719  
B) 700 + (Molecular mass of NH<sub>3</sub>) = 718  
D) 700 + (Molecular mass of NH<sub>3</sub>) = 720

111. What does the number 4 of R 134a indicate?

- A) Number of hydrogen atoms  
C) Number of carbon atoms (Incorrect)  
B) Number of chlorine atoms  
**D) Number of fluorine atoms**

112. Which substance absorbs heat and directly changes its state from solid to vapour?

- A) Ice (Incorrect)  
C) Primary refrigerants  
**B) Dry ice**  
D) Secondary refrigerants

113. Which is the effective method for refrigerant recovery?

- A) Condensing unit (Incorrect)  
C) Push pull recovery  
B) Charge migration  
D) Use of system's compressor

114. How many hydrogen atoms are present in R 134a?

- A) One (Incorrect)  
C) Four  
**B) Two**  
D) Three

115. Which refrigerant is used in vapour compression cycle?

- A) Secondary refrigerant  
C) Brine solution  
**B) Primary refrigerant (Correct)**  
D) Water

116. How to prevent the small pieces of glass wool affecting the eyes?

- A) Wearing goggles (Correct)**  
B) Wearing gloves

C) Using mask

D) Using shoes

A) 13 cm

**B) 15 cm**

C) 18 cm

D) 22 cm (Incorrect)

**117.** What is the name of process that changes the used refrigerant to new product?

A) Recover

B) Recycle

**C) Reclaim (Correct)**

D) Manufacture

**118.** Which type of insulating material is used for making ice box to cool beverages?

A) Tar felt

B) Glass wool (Incorrect)

C) Fibre glass

**D) Thermocole**

**119.** Why universal numbering system is adopted for different refrigerants?

**A) Identifying the refrigerant's names**

B) Mixing the lubricant combination

C) Fixing the drier combination (Incorrect)

D) Identify the systems

**120.** What is the effect of releasing HFC refrigerants to the atmosphere?

**A) Increase global warming potential (Correct)**

B) Increase ozone depleting potential

C) Decrease green house effect

D) Improve water pollution

**121.** Which refrigerant property is desirable for V.C system?

**A) Low boiling point (Correct)**

B) Corrosive to metals

C) Low latent heat valve

D) Low Dielectric strength

**122.** Which type of compressor is used as a vacuum pump?

A) Reciprocating

B) Centrifugal

**C) Rotary (Correct)**

D) Scroll

**123.** Which refrigerant blend is highly flammable?

A) HCFC (Incorrect)

B) HFC

C) CFC

**D) HC**

**124.** Which part of the refrigerator cools the liquid refrigerant in capillary tube?

A) Discharge line

**B) Suction line (Correct)**

C) Condenser

D) Evaporator

**125.** Which type of motor drive is used in hermetic compressor in refrigerator?

A) Belt drive

B) Gear drive

**C) Direct drive (Correct)**

D) Push drive

**126.** What is the minimum distance to be maintained between the wall and refrigerator condenser?

**127.** Which material is used to make the evaporator of refrigerator?

A) Galvanised iron

B) Stainless steel

**C) Aluminium (Correct)**

D) Brass

**128.** Which two tubes act as heat exchanger in a refrigerator?

A) Suction and charging tube

B) Discharge and suction tube

**C) Capillary and suction tube**

D) Discharge and capillary tube (Incorrect)

**129.** What is the name of heat carrying medium in vapour compression system?

A) Air

B) Water

C) Liquid (Incorrect)

**D) Refrigerant**

**130.** Which refrigerant is highly flammable?

**A) HC - Hydro carbon (Correct)**

B) HFC - Hydro fluoro carbon

C) CFC - Chloro fluoro carbon

D) HCFC - Hydro chloro fluoro carbon

**131.** Which component absorbs the maximum heat from the cabinet materials in frost free refrigerator?

A) Condenser

**B) Evaporator (Correct)**

C) Compressor

D) Expansion valve

**132.** What is the function of refrigerant fluid in a refrigerator?

A) Releases heat inside the cabinet

**B) Absorbs heat from inside the cabinet (Correct)**

C) Absorbs heat from outside the cabinet

D) Absorbs heat from bottom side cabinet

**133.** What is the resistance level of start winding in a refrigerator's compressor motor?

A) Medium resistance

**B) High resistance**

C) Zero resistance

D) Low resistance (Incorrect)

**134.** Which refrigerant is used in domestic refrigerator?

A) R 22

B) R 32

**C) R 134 a (Correct)**

D) R 407 c

**135.** Which method is used to check the leakage of hydro fluoro carbon refrigerants?

A) Electric torch

B) Litmus paper (Incorrect)

C) Sulphur candles

**D) Electronic leak detector**

**136.** Which gas is used for pressurising and testing leakage

of RAC system?

A) O<sub>2</sub>

C) O<sub>3</sub>

**B) N<sub>2</sub> (Correct)**

D) SO<sub>2</sub>

**137.** What is ensured before removing a leaky evaporator in a refrigerator?

A) Recharge refrigerant to the system

**C) Removal of the thermostat sensor (Correct)**

B) Check the drain tray of evaporator

D) Pressurize the system with refrigerant

**138.** What is the fault in compressor motor if there is electrical continuity between the dome and motor terminal?

A) Shorted run winding

C) Shorted start winding

B) Open common terminal

**D) Grounded compressor motor (Correct)**

**139.** How does the evaporator frost affect the sub zero temperature thermally in refrigerator?

A) As conductor

C) As convector

**B) As insulator**

D) As radiator (Incorrect)

**140.** What is the reason for filter drier sweating in refrigerator?

A) Nitrogen in the system

C) Oxygen in the system

**B) Moisture in the system**

D) Oil in the system (Incorrect)

**141.** What is the tool used for holding hot metals?

**A) Tongs (Correct)**

C) Pipe vice

B) Spanner

D) Bench vice

**142.** What is the safety device used during arc welding?

A) Screw clamp

C) Electrode holder

**B) Hand screen (Correct)**

D) Lugs for welding

**143.** What is the percentage range of silver in copper to copper pipes brazing rod?

A) 20 to 35%

C) 45 to 60% (Incorrect)

**B) 35 to 45%**

D) 60 to 100%

**144.** What is the colour of acetylene hose pipe in oxy - acetylene welding set?

**A) Maroon**

C) Black

B) Green (Incorrect)

D) Red

**145.** What is the colour of oxygen hose pipe in oxy - acetylene welding set?

A) Maroon

B) Green

**C) Black (Correct)**

D) Red

**146.** What is the ampere setting for 3.5 mm diameter electrode in welding?

A) 50 Ampere

C) 100 Ampere

B) 60 Ampere (Incorrect)

**D) 110 Ampere**

**147.** Which group the acetylene gas belongs?

**A) HC (Correct)**

C) CFC

B) HFC

D) HCFC

**148.** Which is the welding method if the filler rod only is fused?

**A) Non fusion**

C) Fusion

B) Pressure (Incorrect)

D) Forge

**149.** Which flame is used for welding brass?

A) Wide flame

**C) Oxidising flame (Correct)**

B) Neutral flame

D) Carburising flame

**150.** Which valve is closed first while extinguishing flame in gas welding process?

**A) Acetylene (Correct)**

C) Oxygen

B) Hydrogen

D) Air

**151.** What is applied to find the leakage on acetylene gas connection?

**A) Soap bubbles**

C) LPG torch (Incorrect)

B) Halide torch

D) By smell

**152.** Which component secures the hose with regulator union in gas welding set?

A) Steel wire (Incorrect)

C) Fibre clip

**B) Hose clamp**

D) Iron chain

**153.** How the cylinders of gas welding set are secured in trolley?

A) By cable

C) Tightened with rope

**B) Using chain (Correct)**

D) Tied up with belt

**154.** What is done after gas charging and pinching the process tube in refrigerator?

A) Flaring

C) Swaging

B) Charging

**D) Brazing (Correct)**

**155.** Which method of welding process is suitable to nonferrous dissimilar metals?

A) Cold welding

B) Explosion welding (Incorrect)

**C) Brazing and bronze welding**

D) Ultrasonic method of welding

C) Automatic expansion valve

D) Thermostatic expansion valve

156. What is the name of joint between pieces located at right angle to each other?

**A) T - Joint (Correct)**

B) Lap joint

C) Butt joint

D) Grooved joint

165. Which type of evaporator is used in window air conditioner?

A) Bare tube

B) Plate and tube

C) Fins and plate

**D) Fins and tube (Correct)**

157. What is the fault if excess deposit of tiny metal globules formed on the job surface along weld?

A) Incomplete penetration

B) Slag inclusion

C) Blow hole

**D) Spatters (Correct)**

166. Which material is used for making fins of condenser in a window air conditioner?

A) Brass

B) Copper

C) Cast iron

**D) Aluminium (Correct)**

158. Why the acetylene gas is avoided with copper pipe lines or fittings in oxy-acetylene welding set?

A) Copper is expensive

B) Copper is not flexible hose

**C) Copper and acetylene form explosive (Correct)**

D) Copper pipe consumes more acetylene

167. What is the cooling capacity of 0.5 TR in BTU / hr?

**A) 6000**

B) 12000

C) 18000 (Incorrect)

D) 24000

159. Why the filler metal does not melt and flow into the joint in bronze welding of copper?

A) Excess use of flux

B) Due to excess of polished surface

**C) Surface coated with oxides or oily material (Correct)**

D) Excessive heating of metal surface

168. 1 Which control device is used to maintain the room air temperature?

A) OLP

B) Relay

**C) Thermostat (Correct)**

D) Selector switch

160. What is the weld test without destroying or breaking the joint?

A) Destructive test (Incorrect) **B) Non destructive test**

C) Radio graphic test

D) Magnetic test

169. Which relay is used in capacitor start, capacitor run (CSR) compressor motor?

**A) Voltage relay (Correct)**

B) Current relay

C) Thermal relay

D) Amperage relay

161. Which type of compressor is used in window air conditioner?

A) Belt drive

B) Open type

**C) Sealed type (Correct)**

D) Swash plate

170. Which safety device is used for compressor motor in window air conditioner?

A) Relay

B) Starting capacitor

C) Running capacitor

**D) Over load protector (Correct)**

162. Which type of condenser is used in window air conditioner?

**A) Fins and tube (Correct)**

B) Plate and tube

C) Plate and coil

D) Bare tube

171. Which part of window AC removes dust particles from the room air?

A) Strainer

**B) Air filter (Correct)**

C) Filter drier

D) Dehydrator

163. What is the cooling capacity of 1 TR in K Cal / hr?

**A) 3000**

B) 4000

C) 5000

D) 6000 (Incorrect)

172. Which capacity of fan motor is used in 1Ton window air conditioner?

A) 1/5 HP

B) 1/10 HP

**C) 1/16 HP**

D) 1/20 HP (Incorrect)

164. Which type of expansion valve is used in window air conditioner?

**A) Capillary tube**

B) Low side float valve (Incorrect)

173. Which capacitor is connected in series with starting winding of CSR motor during operation?

A) Fan capacitor|

**B) Run capacitor (Correct)**

C) Start capacitor

D) No capacitor is connected

174. What is the value of running capacitor used for 1.5 TR window air conditioner?

- A) 36 MFD  
C) 80 MFD (Incorrect)
- B) 40 MFD  
D) 100 MFD

175. What is the value of starting capacitor used for 1TR window air conditioner?

- A) 40 MFD  
C) 80 MFD
- B) 60 MFD (Incorrect)  
D) 100 MFD

176. What is the purpose of relay used in window air conditioner?

- A) **Disconnect the starting capacitor (Correct)**  
C) Disconnect the fan capacitor
- B) Disconnect the running capacitor  
D) Disconnect the winding capacitor

177. Which is increased by the fins of condenser tubes in window air conditioner?

- A) **Heat transfer rate (Correct)**  
C) Discharge pressure
- B) Power consumption  
D) Refrigerant flow rate

178. What is the purpose of operating the fan motor first and then the compressor motor in Air conditioners?

- A) Cool the coils first by fan  
C) Minimise the noise of motors (Incorrect)
- B) Cool the compressor by fan  
D) **Stop the high starting current by both motors**

179. Which type of fan motor is used in window air conditioner?

- A) Three phase single shaft motor  
C) Three phase double end shaft motor
- B) Single phase single shaft motor  
D) **Single phase double end shaft motor (Correct)**

180. Which winding of compressor motor is directly connected across voltage relay coil?

- A) Main winding  
C) Running winding (Incorrect)
- B) **Starting winding**  
D) Auxiliary winding

181. Where the normally closed contacts are internally connected in voltage relay?

- A) Across 1 and 5 (Incorrect)  
C) **Across 1 and 2**
- B) Across 2 and 5  
D) Across 2 and 4

182. Which is indicated by the arrow mark on filter drier component?

- A) Flow direction of air  
C) **Flow direction of refrigerant (Correct)**
- B) Position of capillary tube  
D) Arrangement of desiccant and filter

183. What is the area of room cooled by 1ton window air conditioner?

- A) 5000 sq.ft  
C) **1000 sq.ft**
- B) 2000 sq.ft  
D) 3000 sq.ft (Incorrect)

184. What is the capacity of compressor motor used in 1Ton window air conditioner?

- A) 0.50 HP  
C) 0.95 HP
- B) **0.75 HP**  
D) 1.00 HP (Incorrect)

185. Which device is used to exhaust the room air in window AC?

- A) **Damper (Correct)**  
C) Filter drier
- B) Air filter  
D) Air washer

186. Where the filter drier is installed in window AC refrigerant circuit?

- A) Discharge line  
C) Service line
- B) Suction line  
D) **Liquid line (Correct)**

187. Which winding has high inductance value in CSR compressor motor?

- A) Common winding  
C) Starting winding
- B) **Running winding (Correct)**  
D) Auxiliary winding

188. Where the relay coil is internally connected in voltage relay?

- A) Across 1 and 2  
C) **Across 5 and 2 (Correct)**
- B) Across 5 and 1  
D) Across 2 and 4

189. What is the value of starting capacitor used for 1.5TR capacity window air conditioner?

- A) 40 to 60 MFD  
C) 130 to 150 MFD (Incorrect)
- B) **80 to 100 MFD**  
D) 150 to 160 MFD

190. Which stabilizer capacity is used for 1 Ton window air conditioner?

- A) 2 KVA  
C) 4 KVA (Incorrect)
- B) **3 KVA**  
D) 5 KVA

191. What is the reason for Compressor does not start ?

- A) Defective fresh air damper (Incorrect)  
C) Defective fan motor
- B) Defective oscillation motor  
D) **Defective OLP**

192. How to neutralise the concentration of leaked ammonia from air

- A) Recover ammonia from air  
B) **Spraying a lot of water (Correct)**

C) Shut down the plant      D) Spray Hydrochloric acid

193. What is the reason for excessive frost on evaporator coil in window AC?

- A) Evaporator fins not blocked by dust (Incorrect)      B) Blower rotating at higher speed  
C) **Air filter blocked completely**      D) More air circulation in evaporator

194. What is the reason for Very high condenser temperature in a window air conditioner?

- A) Water splashes condenser      B) More air flows into the condenser  
C) Fan motor working in good condition      **D) Dust accumulated in the condenser fins (Correct)**

195. What is the reason for the compressor motor burn out in a window air conditioner?

- A) Defective fan capacitor      B) Defective fan motor (Incorrect)  
C) Defective blower      **D) Defective OLP**

196. What is the remedy for the defective OLP in a window air conditioner?

- A) Repair the OLP      **B) Replace the OLP (Correct)**  
C) Remove the parts      D) Repair the heater element

197. What is the reason for the compressor does not start but the fan motor works normally in window AC?

- A) Defective blower      B) Defective fan motor (Incorrect)  
C) Defective fan capacitor      **D) Defective compressor motor**

198. What is the remedy to remove moisture from the window AC system?

- A) Over gas charge in the system (Incorrect)      **B) Evacuate the system deeply**  
C) Clean the evaporator fins      D) Clean the condenser fins

199. What is the cause of reduced supply air throw though air filter is clean in window AC?

- A) No frost in the evaporator      **B) Frost accumulated in the evaporator (Correct)**  
C) Dust accumulated in the condenser      D) No dust accumulated in the evaporator

200. What is the effect of sensing higher temperature by thermistor NTC?

- A) Resistance increases      **B) Resistance decreases (Correct)**  
C) Resistance becomes zero      D) Resistance becomes infinity