

1 Exam Prep

Air Conditioning "A", "B" and Mechanical Practice Exam 8

When a control mechanism is used on an air conditioning system, the simplest control action is?

- A A switch
- B Two position or on-off
- C Proportioning
- D The single-function on-off control

2 Methods of air cooled condenser capacity control currently used include all of the following except?

- A Relay
- B Damper
- C Fan cycling
- D Flood-back

3 A normal start-up sequence of an R-22 system is initiated at _____ psig condensing pressure when the motor starts to open the blades.

- A 155
- B 165
- C 175
- D 185

4 Damper control is adequate for condensing ambient air temperatures down to approximately _____ degrees Fahrenheit.

- A 50
- B 45
- C 40
- D 35

5 Starters that make use of separate circuits in the motor to reduce the starting current are called _____ starters.

- A Full winding
- B Across-the-line
- C Winding
- D Part winding

6 Gauges used for air conditioning work should be?

- A Designed for commercial use
- B Designed for refrigeration service
- C Generic

D Easy to install and work with

7 Compound gauges used for refrigeration service should be calibrated from 0 psi pressure to no less than _____ psi above the normal working suction and discharge pressures of the system.

- A 50 to 75
- B 50 to 100
- C 75 to 100
- D 75 to 110

8 Suction line is being sized for a job. Chilly Pete notes a 90 degree Fahrenheit condensing temperature and a 10 degree Fahrenheit suction temperature. Using R-22, the suction line correction factor is?

- A 1.69
- B 1.49
- C 1.31
- D 1.29

9 Refrigerant 12 and 22 are _____ solvents.

- A Poor
- B Fair
- C Good
- D Excellent

10 When using refrigerant 12 or 22, the refrigerant piping in the system must be?

- A Pre-treated
- B Lubricated
- C Made of refrigerant tubing which has been cleaned by the manufacturer
- D Absolutely clean

11 The amount of friction loss in a water pipe is dependent upon the?

- A Pipe size
- B Pipe length
- C The condition of the pipe and the velocity of the water
- D The condition of the pipe, the course taken by the pipe run and the velocity of the water.

12 A compressor fails to start for all of the following reasons except?

- A Power failure
- B Low voltage
- C Burned out motor
- D Lack of refrigerant

13 The recommended action to take when a compressor freezes due to a damaged mechanism is to _____ the compressor?

- A Overhaul the compressor
- B Replace
- C Repair or replace
- D Clean and check

14 While troubleshooting a refrigeration system, Chilly Pete observes bubbles in the sight glass and determines the system needs refrigerant.. Chilly Pete will?

- A Repair or replace the valve, then charge the system
- B Find and repair the leak, then charge the system
- C Reset the compressor capacity control range
- D Add refrigerant, then run a test

15 In a refrigeration system, bubbles in the sight glass and a lack of refrigerant indicate the?

- A Discharge pressure is too high
- B Discharge pressure is too low
- C Suction pressure is too high
- D Suction pressure is too low

16 A device used to measure gas pressures both above and below atmospheric pressure is called a _____ gauge?

- A Pressure
- B Multi-purpose
- C Convex
- D Compound

****EXAM QUESTIONS 17, 18, 19, 20 AND 21 ARE FOR AIR CONDITIONING "A" AND MECHANICAL CANDIDATES ONLY****

17 Polyethylene pipe is joined by means of?

- A Threading and stainless steel clamps
- B Plastic fittings and clamps
- C Stainless steel fittings and clamps
- D Plastic fittings and stainless steel clamps

18 At 72 degrees Fahrenheit, a type 2 polyvinyl chloride thermoplastic has a chemical resistance to wet chlorine.

- A Limited
- B Unlimited
- C Satisfactory
- D Unsatisfactory

19 Stainless steel 316 with a fluid temperature up to 140 degrees Fahrenheit has a _____ chemical resistance to ammonium chloride.

- A Limited
- B Unlimited
- C Satisfactory
- D Unsatisfactory

20 Given a pressure of 175 pounds per square inch, a 2-inch nominal size cast iron double disc flanged gate valve has a laying length of how many inches?

- A 7
- B 7.25
- C 7.5
- D 8

21 A piping system is colored yellow or orange to indicate its contents are classified _____ materials.

- A Extra valuable
- B Dangerous
- C Safe
- D Protective

22 The _____ allows the oil pressure to build up to preset operating pressure on compressor start.

- A Time delay switch
- B Control circuit
- C Thermostat
- D Pressure control

23 The _____ prevents nuisance shutdown of the compressor if the oil pressure drops for a short time.

- A Time delay switch
- B Control circuit
- C Thermostat
- D Pressure control

24 The _____ of an oil failure control unit (used to protect a compressor from improper lubrication) is based on 120 or 240 volts ac applied in an ambient temperature of 75 degrees Fahrenheit with the cover in place.

- A Sensitivity
- B Reading
- C Time delay
- D Sequencing

25 The time delay of an oil failure control (used to protect the compressor from improper lubrication) is based on _____ with the cover in place.

- A 120 volts ac applied in an ambient temperature of 75 degrees Fahrenheit
- B 240 volts ac applied in an ambient temperature of 25 degrees Celsius
- C 120 or 240 volts ac applied in an ambient temperature of 75 degrees Fahrenheit
- D 120 or 240 volts ac applied in an ambient temperature of 25 degrees Celsius

26 In refrigeration, controls used to open the control circuit when the refrigerant pressure in the low side of the system falls below a given pressure are called _____ pressure controls.

- A Suction
- B Discharge
- C Low
- D Dual

27 The voltage rating of any capacitor must be the one being replaced?

- A Equal to or greater than
- B Equal to
- C Compared to
- D Comparable to

28 Relays operating on the electromagnetic principle are called relays.

- A Starting
- B Potential
- C Solid-state
- D Self-regulating

29 The most common type of flow control device used on units of 5-ton capacity and above is the _____ expansion valve?

- A Heat
- B Temperature
- C Adjustable
- D Thermostatic

30 Thermostatic expansion valves operate as a result of _____ inside the evaporator.

- A Pressure and temperature
- B Superheat
- C Feeler bulbs
- D Flow control devices

- 31 Free moisture in a refrigeration system creates _____ in the orifice of a refrigerant flow control device.
- A Water droplets
 - B Frost
 - C Ice
 - D Dampness
- 32 Ice in the orifice of a refrigerant flow control device is usually indicated by?
- A Poor operation
 - B Poor operation and a lower than normal suction
 - C Poor operation, a lower than normal suction and low discharge pressure
 - D Poor operation, a lower than normal suction, noise and low discharge pressure
- 33 The temperature at which the defrost period ends is called the defrost point?
- A Termination
 - B End
 - C Cut-off
 - D Finish
- 34 When the defrost termination point is too low?
- A The system will shut down
 - B The system will not go into the defrost cycle
 - C Proper refrigeration will not occur
 - D The defrost period will be too long and the temperature within the cabinet will go too high
- 35 A starting switch that is pitted or stuck open will?
- A Allow the motor to start briefly
 - B Allow the motor to start but prevent it from reaching its running speed
 - C Allow the motor to start but cause it to run too fast
 - D Not allow the motor to start
- 36 If a motor hums and tries to start because the starting switch is stuck open?
- A The motor will not start
 - B Do not attempt to start the motor
 - C Start the motor turning while it is humming
 - D Adjust the starting switch and start the motor

37 Main burners include all of the following types except?

- A Slotted port
- B Dual port
- C Ribbon
- D Inshot

38 When joining steel to bronze, use to form the joint?

- A Silver brazing alloys
- B Filler metal
- C Phos-copper brazing alloys
- D Mixed brazing. alloys

39 Total belt deflection should not be more than how many inches?

- A 2
- B 1
- C 7/8
- D 1/2

40 Run capacitors are continuously in the operating circuit and are normally the _____filled type.

- A Water
- B Oil
- C Pressure
- D Manually

41 When using PSC or capacitor-start, capacitor-run motors, the identified terminal should always be connected to the?

- A Supply line or "S" terminal
- B "R" or "S" terminal
- C Supply line or "R" terminal
- D "S" terminal

42 High voltage measurements involve _____volts or more of electricity.

- A 500
- B 550
- C 600
- D 650

43 Do not attempt to take high voltage measurements?

- A Without taking extra safety precautions as outlined by OSHA
- B With hand-held instruments
- C With hand-held instruments unless extra safety precautions are taken as outlined by OSHA
- D By yourself

****QUESTIONS 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56 AND.57 ARE FOR
MECHANICAL CANDIDATES ONLY****

44 A bulk nitrous oxide system has a storage capacity of _____ of nitrous oxide at normal temperature and pressure.

- A 3,200 pounds
- B More than 3,200 pounds
- C 29,000 feet
- D More than 29,000 feet

45 A hypobaric structure is used to house chambers and all auxiliary service equipment for medical applications and procedures?

- A That are affected by subtle changes in atmospheric pressure
- B At pressures below atmospheric pressures
- C At pressures above normal atmospheric pressures
- D At pressures that deviate from normal atmospheric pressures

46 No flammable materials, cylinders containing flammable gases or containers containing flammable liquids shall be stored?

- A Within the main facility of any commercial building
- B Within medical buildings
- C In rooms with gas cylinders
- D In rooms with medical gas cylinders

47 Cylinders in use and in storage shall be prevented from reaching temperatures in excess of?

- A 130 degrees Fahrenheit
- B 120 degrees Fahrenheit
- C 55 degrees Celsius
- D 50 degrees Celsius

48 Tubes used in medical gas systems shall be hard-drawn seamless copper ASTM B 819 medical gas tube, Type?

- A L
- B L or K
- C K or M
- D M

49 ASTM B 819 medical gas tube must be identified?

- A By the manufacturer's markings
- B By the universal identifiers "OXY", "MED", or "ACR/MED"
- C By the colors blue or green
- D By the manufacturer's markings in blue (Type L) or green (Type K)

50 Drops to individual station outlets and inlets in medical-surgical piping systems shall be not less than _____ size.

- A DN15
- B DN20
- C 3/80.D
- D 7/8 0.D

51 The minimum backfilled cover above the top of the enclosure for buried piping outside of a health care facility shall be _____ inches, where physical damage is otherwise prevented.

- A 36
- B 30
- C 24
- D 18

52 When pressure testing a medical gas or vacuum system, the test pressure?

- A Shall equal the system working pressure
- B Shall be not less than 150 PSI gauge
- C Is the standard measure
- D Shall be 1.5 times the working pressure but not less than 150 PSI gauge

53 A medical gas or vacuum system is verified by testing conducted by a in the field of medical gas and vacuum pipeline testing.

- A Technician trained
- B Competent party
- C Party technically competent and experienced
- D Supervisor or manager trained

54 Where natural ventilation is permitted for enclosures for medical gas systems, louvered openings shall have a total minimum free area of?

- A 5,184 square inches
- B 10,368 square inches
- C 20,736 square inches
- D 72 inches squared

55 Where multiple pumps discharge through a common pipe in a medical piping system, each pump shall be?

- A Fitted with a check valve
- B Fitted with a manual isolation valve
- C Arranged to permit capping the individual pump exhausts when a pump is removed for service
- D Fitted with a check valve, a manual isolation valve, or arranged to permit capping the individual pump exhausts when a pump is removed for service

56 Flared and compression joint connections are prohibited throughout _____ medical gas pipeline systems.

- A Category 1 only
- B Category 2 only
- C Category 3
- D Category 2 or 3 only

57 Unions are prohibited throughout _____ medical gas pipeline systems.

- A Category 1 only
- B Category 2 only
- C Category 3
- D Category 2 or 3 only

58 Deep fat fryers in commercial establishments must have a separate high-limit control to shut off fuel or energy when the fat temperature reaches _____ below the surface.

- A 475 degrees Fahrenheit at 1 inch
- B 475 degrees Fahrenheit at 2 inches
- C 245 degrees Celsius at 1 inch
- D 245 degrees Celsius at 2 inches

59 A central warm air heating system that is equipped with a fan or blower providing the primary means for circulation of air is called a _____ system.

- A Standard
- B Forced air
- C Gravity
- D Blowing air

60 Central warm air heating systems where air is circulated by gravity is a _____ system.

- A Standard
- B Forced air
- C Gravity
- D Self-perpetuating air

61 An unlisted automatically fired system with a temperature limit control that cannot be set higher than 250 degrees Fahrenheit burns gas fuel and is installed in a room that is large in comparison with the size of the appliance. For safety reasons, this system must have a minimum clearance of _____ inches in front.

- A 18
- B 20
- C 22
- D 24

62 Service openings in air ducts must be identified with letters having a minimum height of how many inches?

- A 1/2
- B 3/4
- C 7/8
- D 1

63 Service openings in air ducts must be identified with letters to?

- A Identify them as service openings
- B Indicate the location of the fire protection device(s) within
- C Indicate compliance with safety standards outlined in the ASHRAE Handbook
- D Indicate compliance with safety standards outlined in ASTM C 411

****QUESTIONS 64, 65, 66, 67 AND 68 ARE FOR MECHANICAL CANDIDATES ONLY****

64 Buildings utilizing gas equipment requiring air supplied by mechanical means, for combustion, the air shall be supplied?

- A When a draft hood is not present
- B From the outdoors
- C For ventilation, including all air required for comfort and proper working conditions for personnel
- D To all storage closets, bathrooms and toilet rooms

65 The temperature for undiluted LP-Gas systems shall not exceed?

- A - 5 F
- B +5 F
- C - 5 C
- D +5C

66 Plastic pipe shall not be used within or under any building or slab or be operated at pressures greater than psig for natural gas.

- A 30
- B 70
- C 100
- D 110

67 Plastic pipe shall not be used within or under any building or slab or be operated at pressures greater than psig for LP-gas.

- A 30
- B 70
- C 100
- D 110

68 Some gas piping is to be opened for servicing. If the nominal pipe size is six inches, the minimum length of piping that must be purged is _____ feet.

- A 50
- B 30
- C 15
- D 10

69 Air duct designed for a duct pressure class of 1/2 inch (w.g.) has an operating pressure up to _____ inch (w.g.).

- A Up to 1/2
- B 1/2 up to 1
- C 1 up to 2
- D 2 up to 3

70 For a metal duct Joint T-1, flat drive slip, use gauge not less than two gauges less than duct gauge, with _____ gauge minimum.

- A 16
- B 20
- C 22
- D 24

71 For a Type L-1, metal duct _____ seam, the pocket depth varies from 1/4 inch to 5/8 inch, depending on the gauge of metal and the roll form equipment.

- A Grooved
- B Pittsburgh
- C Standing
- D Slide lock

72 For a Type L-1, metal duct Pittsburgh seam, the most common pocket sizes are?

- A 1/4 inch and 5/8 inch
- B 1/4 inch and 3/8 inch
- C 5/16 inch and 5/8 inch
- D 5/16 inch and 3/8 inch

73 When using a button punch snaplock for metal duct work, the seam may be used for _____ inch w.g. static or less.

- A 2
- B 3
- C 4
- D 6

74 Type L-4 metal duct standing seams used on duct-interiors should be fastened together at the ends and at _____ inch intervals.

- A 5
- B 6
- C 7
- D 8

75 The T-1 flat drive is suitable for use as reinforcement for 24 gauge metal when the duct wall static pressure is 1/2 inch water gage to a maximum width of?

- A 20
- B 18
- C 12
- D 8

76 Each layer of flexible duct liner used in a rectangular duct must be attached percent coverage of adhesive at the liner contact surface area.

- A 87
- B 90
- C 92
- D 95

77 When installing rectangular ducts using flexible liner, metal nosings shall be used on the upstream edges of the liners at every transverse joint, if velocities exceed _____ (fpm).

- A 3,700
- B 3,800
- C 3,900
- D 4,000

78 When installing rectangular ducts using flexible liner, ducts with interior widths of require mechanical fasteners in addition to adhesive.

- A Eight inches or more
- B Eight inches or less
- C More than eight inches
- D At least eight inches

79 Flexible liners for rectangular ducts must be installed with mechanical fastening devices that are as corrosion resistant as?

- A Possible, without being cost prohibitive
- B Galvanized metal
- C G60 coated galvanized steel
- D Stainless steel

80 The boiling temperature of water is?

- A 212 degrees Fahrenheit
- B Constant
- C Not constant
- D Under an atmospheric pressure of - 14.7 psia

81 Studies indicate that women of all age groups prefer an effective temperature approximately _____ than men.

- A 1 degree lower
- B 1 degree higher
- C 2 degrees lower
- D 2 degrees higher

82 ABC Heating and Air is about to install a new air conditioning system in a commercial building. Rob, the ABC mechanical contractor, is evaluating the heat flow through the building. Rob knows that a layer of air clings to the face of any object. This, he knows, will cause a _____ from the outdoor air to the inner face of the wall.

- A Heat transfer
- B Drop in temperature
- C Increase in temperature
- D Difference in temperature

83 In pressure lubricated (refrigeration) compressors, the oil pump pressure is exerted on one bellows while the suction pressure is exerted on the other.

- A Release
- B Discharge
- C Thermal
- D Head

84 In pressure lubricated (refrigeration) compressors, the difference between the oil pump discharge pressure and the suction pressure is called the?

- A Measured oil pressure
- B Oil pressure coefficient
- C Oil pressure differential
- D Usable oil pressure

85 When the scale trap at the suction of a (refrigeration) compressor becomes clogged, the suction pressure?

- A Is unaffected
- B May fall to a point where the duplex switch will stop the compressor
- C May fall slightly
- D May fall to a point that the system can no longer function efficiently

86 In air conditioning systems, the percentage of warm water entrained by air and carried away from the cooling device is called the?

- A Drift
- B Drip
- C Dew point
- D Discharge

87 Condensate from _____ air conditioning units must discharge to an approved location.

- A 3 ton
- B 4 ton
- C 5 ton
- D All

88 Auxiliary drain pans on equipment and appliances containing evaporators or cooling coils should be not less than inches larger than _____ the unit or coil dimensions in width and length.

- A 2
- B 3
- C 4
- D 5

89 When using inside fuel-oil tanks, the shutoff may be installed at the?

- A Entrance
- B Tank C Unit
- D Back door

90 A steam type heating system has a fluid design operating temperature of 275 degrees Fahrenheit and a nominal pipe diameter of one and one half inches. The minimum pipe insulation should be how many inches?

- A 1.5
- B 2.0
- C 2.5
- D 3.0

91 The manual actuation device on a commercial food heat-processing appliance must be located a minimum of _____ feet above the floor.

- A 3 1/2
- B 4
- C 4 1/2
- D 5

92 The manual actuation device of a commercial food heat-processing appliance must not be located more than a maximum of _____ feet above the floor.

- A 3 1/2
- B 4
- C 4 1/2
- D 5

93 Liquid adhesive coatings used on air filters for central heating - and air-conditioning systems shall have a flashpoint not lower than _____ degrees Fahrenheit.

- A 325
- B 326
- C 327
- D 328

94 Smoke detectors installed in supply air systems must have a design capacity greater than _____ cfm in the supply air duct.

- A 2,000
- B 2,500
- C 3,000
- D 3,500

95 Pressure-relief devices, fusible plugs and purge systems located within a machinery room must terminate outside the structure at a location not less than _____ feet above the adjoining grade level.

- A 15
- B 16
- C 17
- D 18

96 When using a(n) _____ tank, valves cannot be installed on return piping.

- A Fuel oil
- B Above-ground
- C Below-ground
- D Inside

Answer Key – Exam 8

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62	A	NFPA 90A	9
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64	B	Florida Building Code, Fuel Gas, 2010	304.9
65	A	Florida Building Code, Fuel Gas, 2010	402.6.1
66	C	Florida Building Code, Fuel Gas, 2010	404.15.1
67	A	Florida Building Code, Fuel Gas, 2010	404.1.5.1
68	C	Florida Building Code, Fuel Gas, 2010 Table	406.7.1
69	A	SMACNA Duct Construction Standards, Metal/Flexible	1.18
70	D	SMACNA Duct Construction Standards, Metal/Flexible	2.6
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91	A	NFPA 96	20
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93	A	Florida Building Code, Mechanical, 2010	605.1
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