**Air Conditioning  
Department of Mechanical Engineering**

1. One ton of refrigeration is equal to

(A) 21 KJ/min

(B) 105 KJ/min

(C) 210 KJ/min

(D) 420 KJ/min

Option **(c)**

1. A low side float valve maintains the level of refrigerant in

(A) Flooded evaporator

(B) Evaporator

(C) Condenser

(D) Compressor

Option **(a)**

1. When wet bulb and dry bulb temperature are equal the humidity is

(A) 60%

(B) 80%

(C) 90%

(D) 100%

Option **(d)**

1. The difference between DBT and WBT is called:

(A) wet bulb difference

(B) dew point depression

(C) effective temperature

(D) adiabatic saturation temperature

Option **(a)**

1. The thermostat used for the window type air conditioner is set at:

(A) 65°F

(B) 75°F

(C) 80°F

(D) 85°F

Option **(b)**

1. Name the temperature at which moisture condenses on a surface:

(A) Relative humidity

(B) Grains of moisture

(C) Dew point temperature

(D) Humidity

Option **(c)**

1. A compressor externally coupled to a motor is called

(A) Open type compressor

(B) Semi-sealed compressor

(C) Hermitically sealed compressor

(D) None of the above

Option **(c)**

1. Brine solution density is checked by

(A) Tachometer

(B) Anemometer

(C) Barometer

(D) Hydrometer

Option **(d)**

1. Compressor used in Window Air Conditioner is

(A) Rotary compressor

(B) Reciprocating compressor

(C) Sealed compressor

(D) Open type compressor

Option **(a)**

1. Following is the heart of refrigeration system

(A) Condenser

(B) Evaporator

(C) Compressor

(D) None of the above

Option **(c)**

1. An ideal refrigerants is one whose boiling point is

(A) Very high

(B) High

(C) Medium

(D) Low

Option **(d)**

1. Boiling point of R-600a is

(A) -15.8°C

(B) -14.8°C

(C) -11.8°C

(D) -10.8°C

Option **(c)**

1. In psychrometric chart, dew point temperature lines are

(A) horizontal

(B) vertical

(C) curved

(D) straight lines slopping downwards to the right

Option **(a)**

1. The condenser in indirect system, condenses

(A) Oil

(B) Refrigerant

(C) Brine

(D) Water

Option **(d)**

1. The cooling capacity of 1.0 TR is:

(A) 6000 BTU/Hr

(B) 12000 BTU/Hr

(C) 18000 BTU/Hr

(D) 24000 BTU/Hr

Option **(b)**

1. High side float valve is fitted on the condensing unit just after the

(A) Receiver

(B) Compressor

(C) Condenser

(D) Evaporator

Option **(c)**

1. When air is heated relative humidity

(A) Decreases

(B) Increases

(C) Very high

(D) None of the above

Option **(a)**

1. Sensible heat factor is:

(A) Sensible heat/Latent heat

(B) Total heat/Sensible heat

(C) Latent heat/Sensible heat

(D) Sensible heat/Total heat

Option **(d)**

1. Relay is protection device is used in

(A) Evaporator

(B) Compressor

(C) Condenser

(D) Thermostat

Option **(b)**

1. COP of refrigeration is always \_\_\_ one.

(A) Equal to

(B) Less than

(C) Greater than

(D) None of the above

Option **(c)**

1. The function of duct in air conditioning unit is:

(A) air cooling

(B) air cleaning

(C) air drying

(D) air distribution

Option **(d)**

1. When heat is absorbed by a gas, change in entropy is considered to be:

(A) Positive

(B) Zero

(C) Negative

(D) One

Option **(a)**

1. Sling psychrometer is used to measure

(A) only dry bulb temperature

(B) only wet bulb temperature

(C) dry and wet bulb temperature

(D) relative humidity

Option **(c)**

1. In summer Air conditioning, the air is:

(A) Cooled and humidified

(B) Heated and humidified

(C) Cooled and dehumidified

(D) Heated and dehumidified

Option **(c)**

1. An Electrolux refrigerator is called:

(A) Single fluid absorption system

(B) Two fluid absorption system

(C) Three fluid absorption system

(D) Four fluid absorption system

Option **(c)**

1. Commonly used refrigerant in commercial ice plant is:

(A) Ammonia

(B) Freon-12

(C) Air

(D) CO2

Option **(a)**

1. The window air conditioner is mounted on

(a) wall

(b) ceiling

(c) window

(d) floor

Option **(c)**

1. In a split air conditioner, IDU (Indoor Unit) has

(a) compressor and condenser

(b) evaporator

(c) expansion devise and evaporator

(d) compressor, condenser and expansion device

Option **(b)**

1. In a split air conditioner, ODU (Outdoor Unit) has

(a) compressor and condenser

(b) evaporator

(c) expansion devise and evaporator

(d) compressor, condenser and expansion device

Option **(d)**

1. Which of the following are the advantages of a split air conditioner over window air conditioner?

(a) No compressor noise and vibrations in the room.

(b) No window opening and fixing needed.

(c) The first part can be located anywhere the room with a decorative display

(d) All of the above

Option **(d)**