



**(Paper) SSC Junior Engineers (JE) Exam - 2016 "held on 1st March 2017" Afternoon Shift (General Engineering)**

**QID : 1001** - If 'L' is the span of a light suspension bridge, whose, each cable carries total weight ( $w$ ) and the central dip is 'y', the horizontal pull at each support is \_\_\_\_\_.

**Options:**

- 1)  $wL/4y$
- 2)  $wL/8y$
- 3)  $wL/2y$
- 4)  $wL/y$

**Correct Answer:**  $wL/8y$

**QID : 1002** - The vehicle moving on a level circular path will exert pressure such that \_\_\_\_\_.

**Options:**

- 1) the reaction on the outer wheels will be more
- 2) the reaction on the inner wheels will be more
- 3) the reaction on the inner wheels as well as on the outer wheels will be equal
- 4) it depends on the speed

**Correct Answer:** the reaction on the outer wheels will be more

**QID : 1003** - Which one of the following laws is not applicable for a simple pendulum?

**Options:**

- 1) the time period does not depend on its magnitude
- 2) the time period is proportional to its length

3) the time period is proportional to square root of its length

4) the time period is inversely proportional to square root of its acceleration due to gravity

**Correct Answer:** the time period is proportional to square root of its length

**QID : 1004** - In order to double the period of a simple pendulum \_\_\_\_\_.

**Options:**

1) the mass of its bob should be doubled

2) the mass of its bob should be quadrupled

3) its length should be doubled

4) its length should be quadrupled

**Correct Answer:** its length should be quadrupled

**QID : 1005** - A body is vibrating at 10 vibrations/second in Simple Harmonic Motion of 10 cm amplitude. The maximum velocity in cm/sec can be \_\_\_\_\_.

**Options:**

1)  $100\pi$

2)  $50\pi$

3)  $200\pi$

4) 100

**Correct Answer:**  $200\pi$

**QID : 1006** - The sum of kinetic and potential energy of a falling body \_\_\_\_\_.

**Options:**

1) is constant at all points

2) varies from point to point

3) is maximum at starting and goes on increasing

4) is maximum at starting and goes on decreasing

**Correct Answer:** is constant at all points

**QID : 1007** - If two bodies, one light and other heavy, have equal kinetic energy, which one has a greater momentum?

**Options:**

1) the heavy body

2) the light body

3) both have equal momentum

4) unpredictable

**Correct Answer:** the heavy body

**QID : 1008** - A bucket of water weighing 10 kg is pulled up from a 20 m deep well by a rope weighing 1 kg/m length, then the work done is \_\_\_\_\_.

**Options:**

- 1) 200 kg-m
- 2) 400 kg-m
- 3) 500 kg-m
- 4) 600 kg-m

**Correct Answer:** 400 kg-m

**QID : 1009** - Which of the following is an example of a body undergoing translational equilibrium?

**Options:**

- 1) a body at rest on a table
- 2) a body travelling in a circular path at a constant speed
- 3) a body rotating with constant angular speed about an axis
- 4) a body sliding down a frictionless inclined plane

**Correct Answer:** a body at rest on a table

**QID : 1010** - A boy is swinging on a swing. If another boy sits along with him without disturbing his motion, then the time period of swing will \_\_\_\_\_.

**Options:**

- 1) increase
- 2) decrease
- 3) be doubled
- 4) remain the same

**Correct Answer:** remain the same

**QID : 1011** - The type of motion when the acceleration is proportional to displacement is called \_\_\_\_\_.

**Options:**

- 1) translation
- 2) rotational
- 3) gyroscopic
- 4) simple harmonic

**Correct Answer:** simple harmonic

**QID : 1012** - The escape velocity of a body on earth \_\_\_\_\_.

**Options:**

- 1) increases with the increase of its mass
- 2) decreases with the increase of its mass
- 3) remains unchanged with variation of mass
- 4) varies as the square of the change in mass

**Correct Answer:** remains unchanged with variation of mass

**QID : 1013** - The velocity of the satellite in an orbit close to earth's surface depends on \_\_\_\_\_.

**Options:**

- 1) radius of the orbit only
- 2) acceleration due to gravity only
- 3) square root of product of radius of the orbit and acceleration due to gravity
- 4) product of radius of the orbit and gravitational constant

**Correct Answer:** square root of product of radius of the orbit and acceleration due to gravity

**QID : 1014** - A circular disc rolls down an inclined plane, the fraction of its total energy associated with its rotation is \_\_\_\_\_.

**Options:**

- 1)  $1/2$
- 2)  $1/3$
- 3)  $1/4$
- 4)  $2/3$

**Correct Answer:**  $1/3$

**QID : 1015** - An object weighs 60 gm in air, 50 gm in water and 40 gm in oil. Then the specific gravity of the oil will be \_\_\_\_\_.

**Options:**

- 1) 0.25
- 2) 1
- 3) 1.5
- 4) 2

**Correct Answer:** 2

**QID : 1016** - The value of coefficient of velocity compared to coefficient of discharge \_\_\_\_\_.

**Options:**

- 1) is less
- 2) is more
- 3) has no relation
- 4) is the same

**Correct Answer:** is more

**QID : 1017** - Property of a fluid by which molecules of different kinds of fluids are attracted to each other is called \_\_\_\_\_.

**Options:**

- 1) adhesion
- 2) cohesion

3) viscosity

4) compressibility

**Correct Answer:** adhesion

**QID : 1018** - The depth of water below the spillway and after hydraulic jump are 1 m and 6 m respectively. The head loss will be \_\_\_\_\_.

**Options:**

1) 1.04 m

2) 5 m

3) 1.7 m

4) 2.05 m

**Correct Answer:** 1.04 m

**QID : 1019** - If no resistance is encountered by displacement, such a substance is known as \_\_\_\_\_.

**Options:**

1) fluid

2) water

3) gas

4) ideal fluid

**Correct Answer:** ideal fluid

**QID : 1020** - Head loss in turbulent flow in a pipe \_\_\_\_\_.

**Options:**

1) varies directly as velocity

2) varies inversely as square of velocity

3) varies approximately as square of velocity

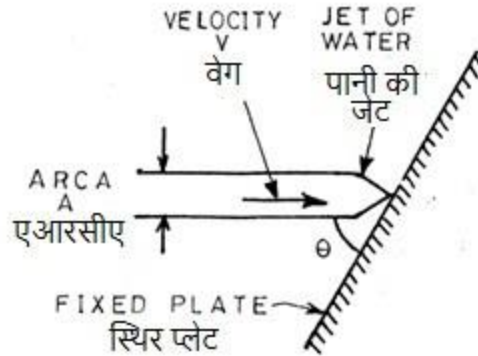
4) depends upon orientation of pipe

**Correct Answer:** varies approximately as square of velocity

**QID : 1021** -

The force exerted by the jet on fixed plate shown in the figure below is equal to :

नीचे दी आकृति में स्थिर प्लेट में जेट द्वारा लगाया गया बल कितना होगा?



Options:

- 1)  $AV^2 \sin \theta$
- 2)  $\rho AV^2 \sin \theta$
- 3)  $\rho AV^2 \cos \theta$
- 4)  $AV^2 \tan \theta$

Correct Answer:  $\rho AV^2 \sin \theta$

QID : 1022 - A weir system in which the downstream water level of the weir nappe is higher than the crest is called \_\_\_\_\_.

Options:

- 1) submerged
- 2) overflowing
- 3) broad-crested
- 4) cipoletti

Correct Answer: submerged

QID : 1023 - For starting an axial flow pump, its delivery valve should be \_\_\_\_\_.

Options:

- 1) closed
- 2) open
- 3) depends on starting condition and flow desired
- 4) could be either open or closed

Correct Answer: open

QID : 1024 - Equation of continuity results from the principal of conservation of \_\_\_\_\_.

Options:

- 1) energy

- 2) flow
- 3) mass
- 4) momentum

**Correct Answer:** mass

**QID : 1025** - When a piping system is made up primarily of friction head and very little of vertical lift, then pipe characteristics should be \_\_\_\_\_.

**Options:**

- 1) horizontal
- 2) nearly horizontal
- 3) very steep
- 4) first rise and then fall

**Correct Answer:** nearly horizontal

**QID : 1026** - The hydraulic mean depth for a circular pipe of diameter 'd' running full is equal to \_\_\_\_\_.

**Options:**

- 1) d
- 2)  $d/3$
- 3)  $d/2$
- 4)  $d/4$

**Correct Answer:**  $d/4$

**QID : 1027** - In a centrifugal pump, the liquid enters the pump from \_\_\_\_\_.

**Options:**

- 1) the top
- 2) the bottom
- 3) the centre
- 4) from sides

**Correct Answer:** the centre

**QID : 1028** -

Head loss in a flowing fluid is experienced due to \_\_\_\_\_.

- A. friction at surface
- B. change of direction
- C. change of section of passage
- D. obstruction in passage

**Options:**

- 1) only A

- 2) only B
- 3) only B and C
- 4) A, B, C and D

**Correct Answer:** A, B, C and D

**QID : 1029** - High specific speed of turbine implies that it is \_\_\_\_\_.

**Options:**

- 1) propeller turbine
- 2) Francis turbine
- 3) Impulse turbine
- 4) Francis turbine or impulse turbine

**Correct Answer:** propeller turbine

**QID : 1030** - One dimensional flow is \_\_\_\_\_.

**Options:**

- 1) restricted to flow in a straight line
- 2) uniform flow
- 3) one which neglects changes in a transverse direction
- 4) the most general flow

**Correct Answer:** one which neglects changes in a transverse direction

**QID : 1031** - Specific speed of a turbine depends upon \_\_\_\_\_.

**Options:**

- 1) speed, power and discharge
- 2) discharge and power
- 3) speed and head
- 4) speed, power and head

**Correct Answer:** speed, power and head

**QID : 1032** - If a mouthpiece is running full at the outlet, the vacuum at vena-contracta \_\_\_\_\_.

**Options:**

- 1) increases velocity of jet.
- 2) decreases velocity of jet
- 3) decreases the discharge
- 4) decreases the value of coefficient of contraction

**Correct Answer:** increases velocity of jet.

**QID : 1033** - When a fluid flows in concentric circles, it is known as \_\_\_\_\_.

**Options:**

- 1) free circular motion
- 2) free rotational motion



- 3) free spiral vortex flow
- 4) free cylindrical vortex flow

**Correct Answer:** free cylindrical vortex flow

**QID : 1034** - Maximum impulse will be developed in hydraulic ram when \_\_\_\_\_.

**Options:**

- 1) when valve closes suddenly
- 2) supply pipe is long
- 3) supply pipe is short
- 4) ram chamber is large

**Correct Answer:** when valve closes suddenly

**QID : 1035** - Critical-depth meter is used to measure \_\_\_\_\_.

**Options:**

- 1) discharge in an open channel
- 2) hydraulic jump
- 3) depth of flow in channel
- 4) depth of channel

**Correct Answer:** discharge in an open channel

**QID : 1036** - Medium specific speed of a pump implies that it is \_\_\_\_\_.

**Options:**

- 1) centrifugal pump
- 2) mixed flow pump
- 3) axial flow pump
- 4) axial flow pump or centrifugal pump

**Correct Answer:** mixed flow pump

**QID : 1037** - The hydraulic grade line is \_\_\_\_\_.

**Options:**

- 1) always moving up
- 2) always moving down
- 3) always above the energy grade line
- 4) the velocity head below the energy grade line

**Correct Answer:** the velocity head below the energy grade line

**QID : 1038** - The ratio of depth of bucket for a Pelton wheel to the diameter of jet is of the order of \_\_\_\_\_.

**Options:**

- 1) 1
- 2) 1.2

3) 1.5

4) 1.8

**Correct Answer:** 1.2

**QID : 1039** - The contraction of area for flow through orifice in tank depends on \_\_\_\_\_.

A. shape of orifice

B. size of orifice

C. head in tank

**Options:**

1) only A

2) only A and B

3) only A and C

4) A, B and C

**Correct Answer:** A, B and C

**QID : 1040** - The flow at critical depth in an open channel is \_\_\_\_\_.

**Options:**

1) maximum

2) minimum

3) zero

4) half of normal flow

**Correct Answer:** maximum

**QID : 1041** - In Kaplan turbine runner, the number of blades is generally of the order \_\_\_\_\_.

**Options:**

1) 2 – 4

2) 4 – 8

3) 8 – 16

4) 16 – 24

**Correct Answer:** 4 – 8

**QID : 1042** - Air vessels in reciprocating pump are used to \_\_\_\_\_.

**Options:**

1) smoothen flow

2) reduce acceleration to minimum

3) increase pump efficiency

4) save pump from cavitation

**Correct Answer:** reduce acceleration to minimum

**QID : 1043** - A hydraulic intensifier normally consists of \_\_\_\_\_.

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**Options:**

- 1) two cylinders, two rams and a storage device
- 2) a cylinder and a ram
- 3) two co-axial rams and two cylinders
- 4) a cylinder, a piston, storage tank and control valve

**Correct Answer:** two co-axial rams and two cylinders

**QID : 1044** - Cavitation is caused by \_\_\_\_\_.

**Options:**

- 1) high velocity
- 2) high pressure
- 3) weak material
- 4) low pressure

**Correct Answer:** low pressure

**QID : 1045** - Which of the following pumps is used for pumping viscous fluids?

**Options:**

- 1) centrifugal pump
- 2) screw pump
- 3) reciprocating pump
- 4) jet pump

**Correct Answer:** screw pump

**QID : 1046** - Steel whose elements are used for the purpose of modifying the mechanical properties of plain carbon steel is called \_\_\_\_\_.

**Options:**

- 1) Alloy steel
- 2) Invar
- 3) Stainless steel
- 4) High speed steel

**Correct Answer:** Alloy steel

**QID : 1047** - Alloy steel containing 36% nickel is called \_\_\_\_\_.

**Options:**

- 1) Invar
- 2) Stainless steel
- 3) High speed steel
- 4) None of these

**Correct Answer:** Invar

**QID : 1048** - Carbon steel is \_\_\_\_\_.

**Options:**

- 1) produced by adding carbon in steel
- 2) an alloy of iron and carbon with varying quantities of phosphorus and sulphur
- 3) purer than the cast iron
- 4) None of these

**Correct Answer:** an alloy of iron and carbon with varying quantities of phosphorus and sulphur

**QID : 1049** - Percentage of carbon in steel is \_\_\_\_\_.

**Options:**

- 1) 0.1% to 0.8%
- 2) 0.35% to 0.45%
- 3) 1.8% to 4.2%
- 4) 0.1% to 1.5%

**Correct Answer:** 0.1% to 1.5%

**QID : 1050** - Hardness of steel depends on \_\_\_\_\_.

**Options:**

- 1) amount of cementite it contains
- 2) amount of carbon it contains
- 3) contents of alloying elements
- 4) method of manufacture of steel

**Correct Answer:** amount of carbon it contains

**QID : 1051** - \_\_\_\_\_ is added to raise the yeild point of low carbon steel.

**Options:**

- 1) Silicon
- 2) Carbon
- 3) Phosphorous
- 4) Sulphur

**Correct Answer:** Phosphorous

**QID : 1052** - An alloy steel contains \_\_\_\_\_.

**Options:**

- 1) more than 0.5% Mn and 0.5% Si
- 2) less than 0.5% Mn and 0.5% Si
- 3) more than 0.35% Mn and 0.5% Si
- 4) less than 0.35% Mn and 0.5% Si

**Correct Answer:** more than 0.5% Mn and 0.5% Si

**QID : 1053** - Alloy steel as compared to carbon steel is more \_\_\_\_\_.

A. tough

- B. b
- C. fatigue resistance

**Options:**

- 1) only A
- 2) only B
- 3) only C
- 4) None of these

**Correct Answer:** None of these

**QID : 1054** - Steel which destroys by burning is called \_\_\_\_\_.

**Options:**

- 1) Alloy steel
- 2) Carbon steel
- 3) Silicon steel
- 4) Killed steel

**Correct Answer:** Killed steel

**QID : 1055** - In steel, main alloy causing corrosion resistance is \_\_\_\_\_.

**Options:**

- 1) Manganese
- 2) Vanadium
- 3) Chromium
- 4) Cobalt

**Correct Answer:** Chromium

**QID : 1056** - The crest diameter of a screw thread is same as \_\_\_\_\_.

**Options:**

- 1) major diameter
- 2) minor diameter
- 3) pitch diameter
- 4) core diameter

**Correct Answer:** major diameter

**QID : 1057** - The function of a washer is to \_\_\_\_\_.

**Options:**

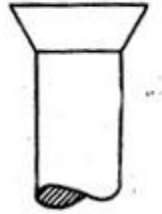
- 1) provide cushioning effect
- 2) provide bearing area
- 3) absorb shocks and vibrations
- 4) provide smooth surface in place of rough surface

**Correct Answer:** provide bearing area

QID : 1058 -

The rivet head for general purpose shown in the figure below is :

नीचे दर्शाई गई आकृति में सामान्य उद्देश्यों के लिए प्रयोग होने वाली कीलक शीर्ष (रिवेट हैड) :



Options:

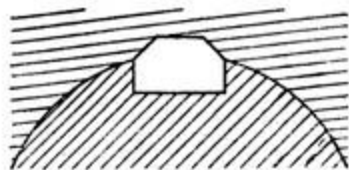
- 1) snap
- 2) pan
- 3) counter sunk
- 4) flat

Correct Answer: counter sunk

QID : 1059 -

The key shown in the figure below is :

नीचे दर्शाई गई आकृति में कुंजी कौन सी है?



Options:

- 1) Lewis key
- 2) Kennedy key
- 3) Pin key
- 4) Barth key

Correct Answer: Barth key

QID : 1060 - Fibrous fracture occurs in \_\_\_\_\_.

Options:

- 1) ductile material
- 2) brittle material

3) elastic material

4) hard material

**Correct Answer:** ductile material

**QID : 1061** - For tight leakage joints, following type of thread is best suited \_\_\_\_\_.

**Options:**

1) metric

2) buttress

3) NPT (National Pipe Threads)

4) acme

**Correct Answer:** NPT (National Pipe Threads)

**QID : 1062** - A backing ring is used inside the pipe joint when making a \_\_\_\_\_.

**Options:**

1) butt weld

2) fillet weld

3) sleeve weld

4) socket weld

**Correct Answer:** butt weld

**QID : 1063** - Which of the following pipe joints would be suitable for pipes carrying steam?

**Options:**

1) flanged

2) threaded

3) bell and spigot

4) expansion

**Correct Answer:** expansion

**QID : 1064** - Antifriction bearings are:-

A. Sleeve bearings

B. Hydrodynamic bearings

C. Thin lubricated bearings

D. Ball and roller bearings

**Options:**

1) only A

2) only B and C

3) only C

4) None of these

**Correct Answer:** None of these

**QID : 1065** - In V-belt drive, belt touches \_\_\_\_\_.



**Options:**

- 1) at bottom
- 2) at sides only
- 3) both at bottom and sides
- 4) could touch anywhere

**Correct Answer:** at sides only

**QID : 1066** - In standard taper roller bearings, the angle of taper of outer raceway is \_\_\_\_\_.

**Options:**

- 1) 5°
- 2) 8°
- 3) 15°
- 4) 25°

**Correct Answer:** 25°

**QID : 1067** - Basic shaft is one \_\_\_\_\_.

**Options:**

- 1) whose upper deviation is zero
- 2) whose lower deviation is zero
- 3) whose lower as well as upper deviations are zero
- 4) does not exist

**Correct Answer:** whose upper deviation is zero

**QID : 1068** - Allen bolts are \_\_\_\_\_.

**Options:**

- 1) self-locking bolts
- 2) designed for shock load
- 3) used in aircraft application
- 4) provided with hexagonal depression in head

**Correct Answer:** provided with hexagonal depression in head

**QID : 1069** - If the tearing efficiency of a riveted joint is 60%, then ratio of rivet hole diameter to the pitch of rivets is \_\_\_\_\_.

**Options:**

- 1) 0.2
- 2) 0.33
- 3) 0.4
- 4) 0.5

**Correct Answer:** 0.4

**QID : 1070** - A riveted joint may fail due to:-

- A. Shearing of the rivet
- B. Shearing off the plate at an edge
- C. Crushing of the rivet

**Options:**

- 1) only A
- 2) only B
- 3) only C
- 4) Any of A or B or C

**Correct Answer:** Any of A or B or C

**QID : 1071** - The same volume of all gases would represent their \_\_\_\_\_.

**Options:**

- 1) densities
- 2) specific weights
- 3) molecular weights
- 4) gas characteristics constants

**Correct Answer:** molecular weights

**QID : 1072** - Extensive property of a system is one whose value \_\_\_\_\_.

**Options:**

- 1) depends on the mass of the system, like volume
- 2) does not depend on the mass of the system, like temperature, pressure etc.
- 3) is not dependent on the path followed but on the state
- 4) is dependent on the path followed and not on the state

**Correct Answer:** depends on the mass of the system, like volume

**QID : 1073** - In an isothermal process, the internal energy of gas molecules \_\_\_\_\_.

**Options:**

- 1) increases
- 2) decreases
- 3) remains constant
- 4) may increase/decrease depending on the properties of gas

**Correct Answer:** remains constant

**QID : 1074** - The more effective way of increasing efficiency of Carnot engine is to \_\_\_\_\_.

**Options:**

- 1) increase higher temperature
- 2) decrease higher temperature

- 3) increase lower temperature
- 4) decrease lower temperature

**Correct Answer:** decrease lower temperature

**QID : 1075** - Under ideal conditions, isothermal, isobaric, isochoric and adiabatic processes are \_\_\_\_\_.

**Options:**

- 1) static processes
- 2) dynamic processes
- 3) quasi-static processes
- 4) stable processes

**Correct Answer:** quasi-static processes

**QID : 1076** - Total heat of a substance is also known as \_\_\_\_\_.

**Options:**

- 1) internal energy
- 2) entropy
- 3) thermal capacity
- 4) enthalpy

**Correct Answer:** enthalpy

**QID : 1077** - In a Carnot cycle, heat is transferred at \_\_\_\_\_.

**Options:**

- 1) constant pressure
- 2) constant volume
- 3) constant temperature
- 4) constant enthalpy

**Correct Answer:** constant temperature

**QID : 1078** - Change of entropy depends upon \_\_\_\_\_.

**Options:**

- 1) change of mass
- 2) change of temperature
- 3) change of specific heats
- 4) change of heat

**Correct Answer:** change of heat

**QID : 1079** - Compressed air coming out from a punctured football \_\_\_\_\_.

**Options:**

- 1) becomes hotter
- 2) becomes cooler

3) remains at the same temperature

4) may become hotter or cooler depending upon the humidity of the surrounding air

**Correct Answer:** becomes cooler

**QID : 1080** - The ratio of actual cycle efficiency to that of ideal cycle efficiency is called \_\_\_\_\_.

**Options:**

1) effectiveness

2) work ratio

3) efficiency ratio

4) isentropic efficiency

**Correct Answer:** efficiency ratio

**QID : 1081** - Which of the following cycles is not a reversible cycle?

A. Carnot

B. Ericsson

C. Stirling

D. Joule

**Options:**

1) only A

2) only A and B

3) only C

4) None of these

**Correct Answer:** None of these

**QID : 1082** - A system will be thermodynamic equilibrium only if it is in \_\_\_\_\_.

A. Thermal equilibrium

B. Mechanical equilibrium

C. Chemical equilibrium

**Options:**

1) only A

2) only B

3) only C

4) A, B and C

**Correct Answer:** A, B and C

**QID : 1083** - Two gases A and B with their molecular weights 28 and 44 respectively, expand at constant pressures through the same temperature range. The ratio of quantity of work done by the two gases (A:B) is \_\_\_\_\_.

**Options:**

1) 7:11

2) 11:7

3) 4:11

4) 7:4

**Correct Answer:** 11:7

**QID : 1084** - Davis steering gear consists of \_\_\_\_\_.

**Options:**

1) Sliding pairs

2) Turning pairs

3) Rolling pairs

4) Higher pairs

**Correct Answer:** Sliding pairs

**QID : 1085** - Properties of substances like pressure, temperature and density, in thermodynamic coordinates are \_\_\_\_\_.

**Options:**

1) path functions

2) point functions

3) cyclic functions

4) real functions

**Correct Answer:** point functions

**QID : 1086** - The refrigeration plants are charged by refrigerants from the cylinder at the \_\_\_\_\_.

**Options:**

1) suction of compressor

2) crank case of compressor

3) evaporator

4) receiver

**Correct Answer:** receiver

**QID : 1087** - Which of the following refrigerant characteristics change constantly during the cooling cycle?

**Options:**

1) pressure and phase

2) temperature and pressure

3) phase and flow

4) flow and pressure

**Correct Answer:** temperature and pressure

**QID : 1088** - Moisture in a refrigerant system is removed by \_\_\_\_\_.

A. Driers

- B. Filter driers
- C. Desiccants

**Options:**

- 1) only A
- 2) only B
- 3) only C
- 4) A, B and C

**Correct Answer:** A, B and C

**QID : 1089** - The most suitable refrigerant for a commercial ice plant is \_\_\_\_\_.

**Options:**

- 1) Brine
- 2) NH<sub>3</sub>
- 3) Freon
- 4) Air

**Correct Answer:** NH<sub>3</sub>

**QID : 1090** - Fittings in ammonia absorption refrigeration system are made of \_\_\_\_\_.

**Options:**

- 1) Cast steel or forgings
- 2) Copper
- 3) Brass
- 4) Aluminium

**Correct Answer:** Cast steel or forgings

**QID : 1091** - Lithium bromide in vapour absorption refrigeration system is used as \_\_\_\_\_.

**Options:**

- 1) refrigerant
- 2) cooling substance
- 3) auxiliary refrigerant
- 4) absorbent

**Correct Answer:** absorbent

**QID : 1092** - The condenser and evaporator tubes in a Freon refrigeration plant are made of \_\_\_\_\_.

**Options:**

- 1) steel
- 2) copper
- 3) brass
- 4) aluminium

**Correct Answer:** copper

**QID : 1093** - Vertical lines on pressure-enthalpy chart show constant \_\_\_\_\_.

**Options:**

- 1) pressure lines
- 2) temperature lines
- 3) total heat lines
- 4) entropy lines

**Correct Answer:** total heat lines

**QID : 1094** - The coefficient of performance is the ratio of the refrigerant effect to the \_\_\_\_\_.

- A. Heat of compression
- B. Work done by compressor
- C. Enthalpy increase in compressor

**Options:**

- 1) only A
- 2) only B
- 3) only C
- 4) A, B and C

**Correct Answer:** A, B and C

**QID : 1095** - Moisture in Freon refrigeration system causes \_\_\_\_\_.

**Options:**

- 1) ineffective refrigeration
- 2) high power consumption
- 3) freezing automatic regulating valve
- 4) corrosion of whole system

**Correct Answer:** freezing automatic regulating valve

**QID : 1096** - Efficiency of the Carnot engine is given as 80%. If the cycle direction be reversed, what will be the value of coefficient of performance of reversed Carnot cycle?

**Options:**

- 1) 1.25
- 2) 0.8
- 3) 0.5
- 4) 0.25

**Correct Answer:** 0.25

**QID : 1097** - During the sensible cooling process \_\_\_\_\_.

**Options:**

- 1) specific humidity remains constant
- 2) specific humidity increases

- 3) specific humidity decreases
- 4) specific humidity is unpredictable

**Correct Answer:** specific humidity remains constant

**QID : 1098** - On psychrometric chart, wet bulb temperature lines are \_\_\_\_\_.

**Options:**

- 1) horizontal
- 2) vertical
- 3) straight inclined sloping downward to the right
- 4) curved

**Correct Answer:** straight inclined sloping downward to the right

**QID : 1099** - If air is heated without changing its moisture content, the dew point will \_\_\_\_\_.

**Options:**

- 1) increase
- 2) decrease
- 3) remain the same
- 4) unpredictable

**Correct Answer:** remain the same

**QID : 1100** - Air is normally dehumidified by \_\_\_\_\_.

**Options:**

- 1) injecting water
- 2) passing steam
- 3) heating
- 4) cooling

**Correct Answer:** cooling





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