

(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 (1) its length should be much all the modern beds.
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) 100π 2) 50π 3) 200π 4) 100
Correct Answer: 200π
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

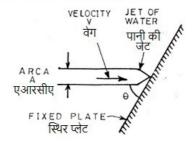
Correct Answer: remains unchanged with variation of mass

QID : 1013 - The velocity of the satellite in an orbit close to earth's surface depends on
Options:
1) radius of the orbit only
 acceleration due to gravity only 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) AV2 $\sin \theta$
- 2) ρ AV2 $\sin \theta$
- 3) ρ AV2 $\cos\theta$
- 4) AV2 tan θ

Correct Answer: ρ AV2 sin θ

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:
speed, power and discharge 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 valority of int
increases velocity of jet. 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
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
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
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%
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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
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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 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 0.5% Mn and 0.5% Si 3) more than 0.5% Mn and 0.5% Si

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 दर्शाईं गईं आकृति में सामान्य उद्देश्यों के लिए प्रयोग होने वाली कीलक शीर्ष (रिवेट हैंड) :



Options:

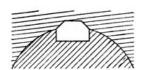
- **1**) snap
- **2**) pan
- 3) counter sunk
- **4**) flat

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 zero3) whose lower as well as upper deviations are zero4) 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 respectivelly, 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 co-ordinates 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) NH3 3) Freon 4) Air
Correct Answer: NH3
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) eluminium
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
high power consumption 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 or
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