SSC Junior Engineer Exam Paper - 2016 "held on 03 March 2017 "Afternoon Shift(General Engineering)

QID: **1001** - Provision of fins on a given heat transfer surface will be more if there are _____.

Options:

- 1) Fewer number of thin fins
- 2) Fewer number of thick fins
- 3) Large number of thick fins
- 4) Large number of thin fins

Correct Answer: Large number of thick fins

QID: 1002 - Which of the following would lead to a

reduction in thermal resistance?

Options:

- 1) In conduction, reduction in the thickness of the material and an increase in the thermal conductivity.
- 2) In convection, stirring of the fluid and cleaning the heating surface
- In radiation, increasing the temperature and reducing the emissivity
- 4) All options are correct

Correct Answer: All options are correct

QID: **1003** - Inspite of large heat transfer coefficients in boiling liquids, fins are used advantageously when the entire surface is exposed to _____.

Options:

- 1) Nucleate boiling
- 2) Film boiling
- 3) Transition boiling
- 4) All modes of boiling

Correct Answer: Film boiling

QID: 1004 - The parameter(s) responsible for loss of heat from a hot pipe surface in a room without fans

would include _____.

Options:

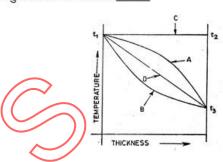
- 1) Temperature of the surface and air in the room
- 2) Emissivity of the surface
- 3) Length and diameter of the pipe
- 4) All options are correct

Correct Answer: All options are correct

QID: 1005 -

The figure given below shows the variation of temperature across the thickness of materials with different thermal conductivities under steady states. Curve C will be applicable when thermal conductivity of the material

नीचे दी गई आकृति में, स्थिर अवस्था में विभिन्न ऊष्मीय चालकताओं के साथ धातु की मोटाई में तापमान में भिन्नता को दर्शाता है। आरेख C लागू होगा जब धातु की ऊष्मीय चालकता



Options:

- 1) increases with increase in temperature
- 2) decreases with increase in temperature
- 3) is very large
- 4) is constant at all temperatures

Correct Answer: is very large

QID: **1006** - On a summer day, a scooter rider feels more comfortable while on the move than while at a stop light because _____.

Options:

- 1) An object in motion captures less solar radiation
- 2) Air is transparent to radiation and hence it is cooler than the body
- 3) More heat is lost by convection and radiation while in motion
- 4) Air has a low specific heat and hence it is cooler

Correct Answer: More heat is lost by convection and	Options:
radiation while in motion	1) Reversible adiabatic flow
QID: 1007 - In radiative heat transfer, a gray surface	2) Irreversible adiabatic flow
is one	3) Frictionless fluid flow
Options:	4) None of these
1) Which appears gray to the eye	Correct Answer: Reversible adiabatic flow
2) Whose emissivity is independent of wavelength	QID: 1012 - In all reversible process, entropy of the
3) Which has reflectivity equal to zero	system
4) Which appears equally bright from all directions	Options:
Correct Answer: Whose emissivity is independent of	1) Increases
wavelength	2) Decreases
QID: 1008 - The property of a working substance,	3) Remains same
which increases or decreases according to the heat	4) None of these
supplied or removed in a reversible manner, is called	Correct Answer: Increases
	QID: 1013 - In isothermal expansion, work done by
Options:	gas depends upon
1) Enthalpy	Options:
2) Entropy	1) Atomicity of gas only
3) Reversibility	2) Expansion ratio only
4) None of these	3) Adiabatic index
Correct Answer: Entropy	4) Both Atomicity of gas and expansion ratio
QID : 1009 - Triple point	Correct Answer: Both Atomicity of gas and
Options:	expansion ratio
1) Occurs in a mixture of two or more gases	QID: 1014 - The difference between two specific
2) Is the point, where three phases exists together	heats, Cp and Cv for a gas represents
3) Occurs in sublimation	Options:
4) None of these	1) Increase in kinetic energy of gas molecules
Correct Answer: Is the point, where three phases	2) Increase in potential energy of gas molecules
exists together	3) External work done
QID: 1010 - Non quasistatic process is	4) Increase in volume
Options:	Correct Answer: External work done
1) Free expansion of gas	QID: 1015 - The universal gas constant of a gas is
2) Expansion of a gas in a cylinder under constant	the product of molecular weight of the gas and
pressure	Options:
3) Rapid compression of a gas in a cylinder	1) Gas constant
4) Gradual compression of a gas in a cylinder	2) Specific heat at constant pressure
Correct Answer: Free expansion of gas	3) Specific heat at constant volume
QID: 1011 - Isentropic flow is .	4) None of these

Correct Answer: Gas constant	3) Temperature
QID: 1016 - The temperature of a gas is a measure	4) All options are correct
of	Correct Answer: Temperature
Options:	QID: 1020 - Control volume refers to a
Nerage distance between gas molecules	Options:
2) Average kinetic energy of gas molecules	1) Specified mass
3) Average potential energy of gas molecules	2) Fixed region in the space
4) None of these	3) Closed system
Correct Answer: Average kinetic energy of gas	4) None of these
molecules	Correct Answer: Fixed region in the space
QID: 1017 - A perpetual motion machine of the first	QID: 1021 - In regenerator type heat exchanger, heat
kind i.e. a machine which produces power without	transfer takes place by
consuming any energy is	Options:
Options:	1) direct mixing of hot and cold fluids
Possible according to first law of thermodynamics	2) a complete separation between hot and cold fluids
2) Impossible according to first law of	3) flow of hot and cold fluids alternately over a surface
thermodynamics	4) generation of heat again and again
3) Impossible according to second law of	Correct Answer: flow of hot and cold fluids
thermodynamics	alternately over a surface
4) Possible according to second law of	QID: 1022 - Film coefficient is the ratio of
thermodynamics	Options:
Correct Answer: Impossible according to first law of	1) Thickness of film of fluid to thermal conductivity
thermodynamics	2) Thickness of film of fluid to temperature drop
QID: 1018 - A system consisting of more than one	through film of fluid
phase is called	3) Thermal conductivity to temperature drop through
Options:	film of fluid
1) Isolated system	4) Thermal conductivity to equivalent thickness of film
2) Open system	of fluid
3) Non-uniform system	Correct Answer: Thermal conductivity to equivalent
4) Heterogeneous system	thickness of film of fluid
Correct Answer: Heterogeneous system	QID: 1023 - Highest thermal diffusivity is of
QID: 1019 - Thermal equilibrium between two or	Options:
more bodies exists, when they are brought together,	1) Iron
there is no change in	2) Lead
Options:	3) Concrete
1) Density	4) Wood
2) Pressure	Correct Answer: Lead
	QID: 1024 - Highest thermal conductivity is of

Options:

- 1) Solid ice
- 2) Melting ice
- 3) Water
- 4) Steam

Correct Answer: Solid ice

QID: 1025 - The ratio of work done per cycle to the swept volume in case of compressor is called

Options:

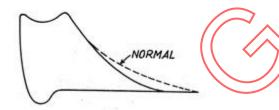
- 1) compression index
- 2) compression ratio
- 3) compressor efficiency
- 4) mean effective pressure

Correct Answer: mean effective pressure

QID: 1026 -

The indicator diagram shown in the figure below obt compressor shows that _____.

संपीडक पर प्राप्त नीचे दिए गए सूचक आरेख में, क्या प्रदर्शि



Options:

- 1) suction valve or piston rings, or both are leaking
- 2) discharge valve is leaking into cylinder during compression stroke
- 3) slow opening suction valve
- **4**) suction valve sticking open at beginning of compression stroke

Correct Answer: discharge valve is leaking into cylinder during compression stroke

QID: 1027 - Metals are good heat conductors because _____.

Options:

- 1) of free electrons present
- 2) their atoms are relatively far apart
- 3) their atoms collide frequently
- 4) All options are correct

Correct Answer: their atoms collide frequently **QID: 1028** - Heat is transferred from an insulated pipe to the surrounding still air by _____.

Options:

- 1) Conduction
- 2) Convection
- 3) Radiation
- 4) All options are correct

Correct Answer: Radiation

QID: **1029** - Heat is transferred by conduction, convection and radiation in _____.

Options:

- 1) Boiler furnaces
- 2) Melting of ice
- 3) Condensation of steam in condenser
- 4) None of these

Correct Answer: Boiler furnaces

QID: **1030** - In optical pyrometers absorption filter is used

Options:

- 1) To get monochromatic light
- 2) To eliminate stray rays of light
- 3) To minimise reflection of rays from the lens surface
- **4**) To enable filament operation at reduced intensity for longer life

Correct Answer: To enable filament operation at reduced intensity for longer life

QID: **1031** - The flow of water in a pipe of diameter 3000 mm can be measured by _____.

Options:

- 1) Venturimeter
- 2) Rotameter
- 3) Pilot tube
- 4) Orifice plate

Correct Answer: Pilot tube	1) at normal depth
QID: 1032 - Buoyant force is	2) above normal depth
Options:	3) below normal depth
1) Resultant of up-thrust and gravity forces acting on	4) above critical depth
the body	Correct Answer: above critical depth
2) Resultant force on the body due to the fluid	QID: 1037 -
surrounding it	A vertical sluice gate 3m wide and 2.5m deep contains water on both of its sides. On the upstream side, the water is 5m deep and
3) Resultant of static weight of body and dynamic	on the downstream side it is 2m deep from the bottom of the sluice. What is the resultant pressure on the gate?
thrust of fluid	THE REPORT OF THE PROPERTY OF
4) Equal to the volume of liquid displaced by the body	एक ऊध्वार्धर जलमार्ग 3 मीटर चौडा और 2.5 मीटर गहरा है जिसके दोनों ओर पानी भरा है। धारा के प्रतिकूल, जलमार्ग के तल से पानी 5 मीटर गहरा है और अनुप्रवाह में यह 2 मीटर गहरा है। द्वार पर परिणामी दाब क्या है?
Correct Answer: Equal to the volume of liquid	अनुप्रवाह में यह 2 मीटर गहरा है। द्वार पर परिणामी दाब क्या है?
displaced by the body	Water
QID: 1033 - In equilibrium condition, fluids are not	
able to sustain	2.5m
Options:	Sm Water
1) Shear force	Hinge 2.5m 2m
2) Resistance to viscosity	
3) Surface tension	Options:
4) Geometric similitude	1) 275.9 KN
Correct Answer: Surface tension	2) 58.9 KN
QID: 1034 - A large Reynold number is indication of	3) 217 KN
	4) None of these
Options:	Correct Answer: 217 KN
1) Smooth and streamline flow	QID: 1038 - The coefficient of discharge (Cd) of an
2) Laminar flow	orifice varies with
3) Steady flow	Options:
4) Highly turbulent flow	1) Reynold number
Correct Answer: Highly turbulent flow	2) Weber number
QID: 1035 - The fluid forces considered in the Navier	3) Froude number
Stokes equation are	4) Mach number
Options:	Correct Answer: Reynold number
1) Gravity, pressure and viscous	QID: 1039 - Head loss in turbulent flow in a pipe
2) Gravity, pressure and turbulent	
3) Pressure, viscous and turbulent	Options:
4) Gravity, viscous and turbulent	1) Varies directly as velocity
Correct Answer: Gravity, pressure and viscous	2) Varies inversely as square of velocity
QID: 1036 - Tranquil flow must always occur	3) Varies approximately as square of velocity
Options:	4) Varies inversely as velocity

4) Varies inversely as velocity

Correct Answer: Varies approximately as square of velocity	QID: 1044 - The force buoyancy is dependent on
QID: 1040 - A type of flow in which the fluid particles	Options:
while moving in the direction of flow rotate about their	1) Mass of liquid displaced
mass centre, is called	2) Viscosity of fluid
	3) Surface tension of fluid
Options:	4) Depth of immersion
1) Steady flow	Correct Answer: Mass of liquid displaced
2) Uniform flow	QID: 1045 - The vapour pressure over the concave
3) Laminar flow	surface is
4) Rotational flow	Options:
Correct Answer: Rotational flow	1) Less than the vapour pressure over the plane
QID: 1041 - For a flow to be rotational, velocity	surface
normal to the plane of area should be equal to the	2) Equal to vapour pressure over the plane surface
	3) Greater than the vapour pressure over the plane
Options:	4) Zero
1) Angular velocity vector	Correct Answer: Less than the vapour pressure over
2) Half the angular velocity vector	the plane surface
3) Twice the angular velocity vector	QID: 1046 - Bernoulli's equation cannot be applied
4) Zero	when the flow is
Correct Answer: Twice the angular velocity vector	Options:
QID: 1042 - A fluid in which resistance to deformation	1) Rotational
is independent of the shear stress, is called	2) Turbulent
Options:	3) Unsteady
1) Bingham plastic fluid	4) All options are correct
2) Pseudo plastic fluid	Correct Answer: Turbulent
3) Dilatant fluid	QID: 1047 - When a body floating in a liquid is
4) Newtonian fluid	displaced slightly, it oscillates about
Correct Answer: Newtonian fluid	Options:
QID: 1043 - The rate of change of linear momentum	1) Centre of gravity of body
is equals to	2) Centre of pressure
Options:	3) Centre of buoyancy
1) Active force	4) Metacentre
2) Reactive force	Correct Answer: Metacentre
3) Torque	QID: 1048 - Heaviest fluid is
4) Work done	Options:
Correct Answer: Active force	1) Air
	2) Castor oil

3) Glycerin	Correct Answer: Laminar
4) Carbon tetrachloride	QID: 1053 - The maximum continuous power
Correct Answer: Carbon tetrachloride	available from a hydroelectric plant under the most
QID: 1049 - A hydrometer is used to determine	adverse hydraulic conditions is known as
	Options:
Options:	1) base power
1) Relative humidity	2) firm power
2) Buoyant force	3) primary power
3) Specific gravity of liquids	4) secondary power
4) Viscosity of liquids	Correct Answer: firm power
Correct Answer: Specific gravity of liquids	QID: 1054 - A plot between power generated in MW
QID: 1050 - A model of torpedo is tested in a towing	and time is known as
tank at a velocity of 25 m/sec. The prototype is	Options:
expected to attain a velocity of 5 m/sec. What model	1) Load curve
scale has been used?	2) Load duration curve
Options:	3) Load factor
1) 1 : 5	4) Demand curve
2) 1: 2.5	Correct Answer: Load curve
3) 1: 25	QID: 1055 - The ratio of 'Average generation in KWH
4) None of these	per year' to 'the product of Installed capacity in KW
Correct Answer: 1:5	and hrs per year' is known as
QID: 1051 - For the water is flowing through a 20 cm	A. Plant factor
diameter pipe with friction factor, f = 0.04. The flow	B. Capacity factor
will be	C. Use factor
Options:	Options:
1) Viscous	1) only A
2) Non viscous	2) A or B
3) Both viscous and non-viscous	3) A or B or C
4) None of these	4) only C
Correct Answer: Viscous	Correct Answer: A or B or C
QID: 1052 - Crude oil of kinematic viscosity 2.25	QID: 1056 - Portion of the installed reserve kept in
stokes flows through a 20 cm diameter pipe, The rate	operable condition but not placed in service to supply
of flow being 1.5 litres/sec. The flow will be	the peak load is known as
Options:	Options:
1) Laminar	1) Operating reserve
2) Turbulent	2) Spinning reserve
3) Uncertain	3) Cold reserve
4) None of these	4) Hot reserve

Correct Answer: Cold reserve	QID: 1061 - Castor and camber are terms associated
QID: 1057 - Capacity of hydroelectric plant in service	with which of the following parts of an automobile?
in excess of the peak load is known as	Options:
Options:	1) Gears
1) Operating reserve	2) Engine
2) Spinning reserve	3) Suspensions
3) Cold reserve	4) Wheels
4) Hot reserve	Correct Answer: Wheels
Correct Answer: Operating reserve	QID: 1062 - In reciprocating engines primary forces
QID: 1058 - An impulse turbine is used for	·
Options:	Options:
1) Low head of water	1) Are completely balanced
2) High head of water	2) Are partially balanced
3) Medium head of water	3) Are balanced by secondary forces
4) High discharge	4) Cannot be balanced
Correct Answer: High head of water	Correct Answer: Are partially balanced
QID: 1059 - In a reaction turbine, the draft tube is	QID: 1063 A friction circle is a circle drawn when
used	the journal rotates in a bearing. Its radius depends on
Options:	the coefficient of friction and
1) To run the turbine full	Options:
2) To prevent air to enter the turbine	1) Magnitude of the forces on the journal
3) To increase the effective head of water	2) Angular velocity of the journal
4) To transport water to downstream	3) Clearance between the journal and the bearing
Correct Answer: To increase the effective head of	4) Radius of the journal
water	Correct Answer: Radius of the journal
QID: 1060 - In an inward flow reaction of turbine	QID: 1064 - The gear train usually employed in
·	clocks is a
Options:	Options:
1) The water flows parallel to the axis of the wheel	1) Reverted gear train
2) The water enters the centre of wheel and there	2) Simple gear train
flows towards the outer periphery of the wheel	3) Sun and planet gear
3) The water enters the wheel at the outer periphery,	4) Differential gear
and then flows towards the centre of the wheel	Correct Answer: Reverted gear train
4) The flow of water is partly radial and partly axial	QID: 1065 - Critical damping is a function of
Correct Answer: The water enters the wheel at the	Options:
outer periphery, and then flows towards the centre of	1) Mass and stiffness
the wheel	2) Mass and damping co-efficient
	-

3) Stiffness and natural frequency	Correct Answer: Brittle materials
4) Natural frequency and damping co-efficient	QID: 1070 - Which of the following key transmits
Correct Answer: Mass and stiffness	power through frictional resistance only?
QID: 1066 - Rotating shafts tend to of vibrate	Options:
violently at whirling speeds because	1) Saddle key
Options:	2) Barth key
1) The shafts are rotating at vary speeds	3) Kennedy key
2) Bearing centre line coincide with the shaft axis	4) Tangent key
3) The system is unbalanced	Correct Answer: Saddle key
4) Resonance is caused due to the heavy weight of	QID: 1071 - The key will fail in which of the following
the rotor	manner?
Correct Answer: Resonance is caused due to the	Options:
heavy weight of the rotor	1) Shearing
QID: 1067 - Critical or whirling speed is the speed at	2) Crushing
which the shaft tends to vibrate violently in	3) Both crushing and shearing
Options:	4) None of these
1) Transverse direction	Correct Answer: Both crushing and shearing
2) Longitudinal direction	QID: 1072 In hydrostatic bearing the starting friction
3) Linear direction	is·
4) None of these	Options:
Correct Answer: Transverse direction	1) Very low
QID: 1068 - When a shaking force is transmitted	2) More
through the springs, damping becomes detrimental	3) Either more or less
when the ratio of its frequency to the natural	4) Uncertain
frequency is greater than	Correct Answer: Very low
Options:	QID: 1073 - Feather keys are generally
1) 0.25	Options:
2) 0.5	1) Tight in shaft and loose in hub
3) 1	2) Loose in shaft and tight in hub
4) √2	3) Tight in both shaft and hub
Correct Answer: √2	4) Loose in both shaft and hub
QID: 1069 - Stress concentration in static loading is	Correct Answer: Tight in shaft and loose in hub
more serious in	QID: 1074 - The uniform pressure theory as
Options:	compared to the uniform wear theory gives
1) Ductile materials	Options:
2) Brittle materials	1) Higher frictional torque
3) Equally serious in both cases	2) Lower frictional torque
4) Depends on other factors	

3) Either lower or higher frictional torque	3) Both ends of the column are hinged
4) None of these	4) One end of the column is hinged and the other end
Correct Answer: Higher frictional torque	is free
QID: 1075 - Tapered roller bearings can take	Correct Answer: Both ends of the column are
Options:	clamped
1) Radial load only	QID: 1079 - The number of strain readings (using
2) Axial load only	strain gauges) needed on a plane surface to
3) Both radial and axial loads and the ratio of these	determine the principal strains and their directions are
being less than unity	
4) Both radial and axial loads and the ratio of these	Options:
bring greater than unity	1) 1
Correct Answer: Both radial and axial loads and the	2) 2
ratio of these being less than unity	3) 3
QID: 1076 - Two shafts A and B are made of the	4) 4
same material. The diameter of shaft B is twice that of	Correct Answer: 3
shaft A. The ratio of power which can be transmitted	QJD: 1080 - If the value of Poisson's ratio is zero,
by shaft A to that of shaft B is	then it means that
Options:	Options:
1) 1/2	1) The material is rigid
2) 1/4	2) The material is perfectly plastic
3) 1/8	3) There is no longitudinal strain in the material
4) 1/16	4) None of these
Correct Answer: 1/8	Correct Answer: None of these
QID: 1077 - For the two shafts connected in parallel,	QID: 1081 - Which of the following is applied to brittle
find which statement is true?	materials?
Options:	Options:
1) Torque in each shaft is the same	1) Maximum principal stress theory
2) Shear stress in each shaft is the same	2) Maximum principal strain theory
3) Angle of twist of each shaft is the same	3) Maximum strain energy theory
4) Torsional stiffness of each shaft is the same	4) Maximum shear stress Theory
Correct Answer: Angle of twist of each shaft is the	Correct Answer: Maximum principal stress theory
same	QID: 1082 - Design of shafts made of brittle materials
QID: 1078 - The buckling load will be maximum for a	is based on
column if	Options:
Options:	1) Guest's theory
1) One end of the column is clamped and the other	2) Rankine's theory
end is free	3) St.Venant's theory
2) Both ends of the column are clamped	4) Von Mises theory

Correct Answer: Rankine's theory

QID: 1083 - The moment of inertia of a hollow circular section whose external diameter is 8 cm and internal diameter is 6 cm about centroidal axis is

____ cm4.

Options:

1) 437.5

2) 337.5

3) 237.5

4) 137.5

Correct Answer: 437.5

QID: **1084** - The maximum frictional force which comes into play when a body just begins to slide over the surface of another body is known as _____.

Options:

1) sliding friction

2) rolling friction

3) limiting friction

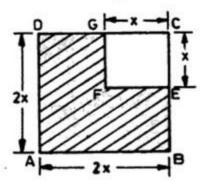
4) None of these

Correct Answer: limiting friction

QID: 1085 -

A square sheet of metal has a square of the quarter area cut from one corner as shown in the figure. Whit following statements is true about the position of the gravity of the remaining portion of the sheet?

धातु की एक वर्गाकार शीट के एक कोने से वास्तविक क्षेत्र के का एक वर्ग काटा गया है। शीट के बचे हुए भाग के गुरूत्व के बारे में निम्नलिखित में से कौन सा कथन सत्य है?



Options:

- 1) Centre of gravity lies at a distance of 5/12 of the side of the original square from each uncut side
- 2) Centre of gravity lies at a distance of 7/12 of the side of the original square from each uncut sid
- 3) Centre of gravity lies at a distance of 3/4 of the side of the original square from each uncut side
- 4) None of these

Correct Answer: Centre of gravity lies at a distance of 5/12 of the side of the original square from each uncut side

QID: **1086** - A steel bar 20 mm in diameter simply supported at its ends over a total span of 40 cm, carries a load at its center. If the maximum stress included in the bar is limited to $480/\pi$ N/mm2 then the bending strain energy stored in the bar is _____.

Options:

1) 411 N mm

2) 511 N mm

3) 611 N mm

4) 711 N mm

Correct Answer: 611 N mm

QID: **1087** - The Charpy test is conducted to measure

Options:

1) Toughness

2) Creep strength

3) Fatigue strength

4) Elastic strength of a material

Correct Answer: Toughness

QID: 1088 - The stress produced by a suddenly applied load as compared to that produced by the same load when applied gradually is _____ times.

Options:

1) 1.5

2) 2

3) 3

4) 4

Correct Answer: 2

QID: 1089 - The bending moment for a certain	3) voltage across the arc
portion of the beam is constant. For that section,	4) size of the electrode
shear force would be	Correct Answer: size of the electrode
Options:	QID: 1094 - Two sheets of same material but
1) Zero	different thickness can be butt welded by
2) Increasing	
3) Decreasing	Options:
4) Constant	1) adjustment of the current
Correct Answer: Zero	2) time duration of current
QID: 1090 - An increase in load at the free end of a	3) pressure applied
cantilever is likely to cause failure	4) changing the size of one electrode
Options:	Correct Answer: changing the size of one electrode
1) At the free end	QID: 1095 - Pick up the incorrect statement about
2) At the mid of its length	MIG welding.
3) At the fixed support end	Options:
4) Anywhere on the beam	1) no flux required
Correct Answer: At the fixed support end	2) high welding speed
QID: 1091 - In the electro-discharge machining	3) increased corrosion resistance
process, the work-piece and the electrode are	4) even unclean surface can be welded to obtain
submerged in	sound welds
Options:	Correct Answer: no flux required
1) a dielectric fluid	QID: 1096 - First product of the blast furnace in the
2) an abrasive slurry	process of converting iron ore into useful metal by
3) an electrolytic solution	reduction is called
4) vacuum	Options:
Correct Answer: a dielectric fluid	1) Cast iron
QID: 1092 - Swaging is an operation of	2) Wrought iron
Options:	3) Pig iron
1) hot rolling	4) Steel
2) forging	Correct Answer: Pig iron
3) extrusion	QID: 1097 - Raw material for all iron and steel
4) piercing	product is
Correct Answer: forging	Options:
QID: 1093 - In arc welding operations the current	1) Cast iron
value is decided by	2) Wrought iron
Options:	3) Pig iron
1) thickness of plate	4) Steel
2) length of welded portion	Correct Answer: Pig iron

QID: 1098 - Grey cast iron has _____. **Options:** 1) brittleness 2) low electrical conductivity 3) low compressive strength 4) All options are correct Correct Answer: low electrical conductivity QID: 1099 - Chilled cast iron is _____. **Options:** 1) Soft on surface 2) Machined freely 3) High resistance to wear 4) All options are correct Correct Answer: High resistance to wear QID: 1100 - If carbon present in cast iron is partly free and partly in combined state, it is called _____. Options: 1) White cast iron 2) Grey cast iron 3) Molten cast iron 4) None of these