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Notations :

1.Options shown in green color and with ✔ icon are correct.

2.Options shown in red color and with ✖ icon are incorrect.

Question Paper Name :	Automobile Engg
Subject Name :	Automobile Engineering
Creation Date :	2020-09-23 18:10:59
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Total Marks :	300
Display Marks:	Yes
Share Answer Key With Delivery Engine :	No
Actual Answer Key :	Yes
Calculator :	Scientific
Magnifying Glass Required? :	No
Ruler Required? :	No
Eraser Required? :	No
Scratch Pad Required? :	No
Rough Sketch/Notepad Required? :	No
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter :	No
Auto Save on Console? :	Yes

Automobile Engineering

Group Number :	1
Group Id :	19273235
Is this Group for Examiner? :	No

Automobile Engineering

Section Id :	19273235
Section Number :	1
Section type :	Online
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	19273238
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 1927325401 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

In isentropic process, which one of the following remains constant?

Options :

1. ✔ Entropy
2. ✖ Enthalpy
3. ✖ Pressure
4. ✖ Temperature

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Question Number : 2 Question Id : 1927325402 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

In a diesel engine, _____ is absent.

Options :

1. ✖ Piston
2. ✖ Cylinder
3. ✔ Spark plug
4. ✖ Fuel injector

Question Number : 3 Question Id : 1927325403 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Device that violates second law of thermodynamics is called _____.

Options :

1. ✖ heat exchangers
2. ✖ turbines
3. ✖ compressors
4. ✔ perpetual motion machine of second kind (PMM2)

Question Number : 4 Question Id : 1927325404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

In four stroke engine, power stroke is achieved after _____.

Options :

1. ✔ 2 revolutions of the crankshaft
2. ✖ 1 revolutions of the crankshaft
3. ✖ 4 revolutions of the crankshaft
4. ✖ 6 revolutions of the crankshaft

Question Number : 5 Question Id : 1927325405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The main function of piston rings is _____.

Options :

1. ✖ to drain out exhaust gases
2. ✖ to mix air fuel mixture
3. ✖ to deliver the power stroke
4. ✔ to seal the combustion chamber

Question Number : 6 Question Id : 1927325406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Turbocharger uses _____ for energy generation.

Options :

1. ✖ diesel
2. ✔ exhaust stream
3. ✖ petrol
4. ✖ water

Question Number : 7 Question Id : 1927325407 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Hermetically sealed compressors are generally used in _____.

Options :

1. ✔ Household refrigerators
2. ✖ Cold storage plants
3. ✖ Aircraft Refrigeration
4. ✖ Power plants

Question Number : 8 Question Id : 1927325408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

If the air at 1 bar, 25°C is compressed is entropically to 5 bar. The temperature after compression is around _____.

Options :

1. ✖ 49°C
2. ✔ 199°C
3. ✖ 299°C
4. ✖ 150°C

Question Number : 9 Question Id : 1927325409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Latent heat of ice is about _____.

Options :

1. ✔ 336 KJ/kgK
2. ✖ 108 KJ/kgK
3. ✖ 216 KJ/kgK
4. ✖ 168 KJ/kgK

Question Number : 10 Question Id : 1927325410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

In a mixture of gases the total pressure is equal to the sum of partial pressures of the individual constituents of the mixture, is called as _____.

Options :

1. ✖ Boyle's Law
2. ✔ Dalton's Law of Partial Pressure
3. ✖ Charles' Law
4. ✖ Second Law of Thermodynamics

Question Number : 11 Question Id : 1927325411 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Which of the following is not the type of scavenging process?

Options :

1. ✖ Loop
2. ✖ Crossflow
3. ✖ Uniflow
4. ✔ Laminar flow

Question Number : 12 Question Id : 1927325412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

In a water cooled heat exchanger, air is entering at 100°C and leaving at 40°C. The cooling water is entering at 24°C. The effectiveness of the heat exchanger is _____.

Options :

1. ✖ 0.68
2. ✔ 0.79
3. ✖ 0.54
4. ✖ 0.36

Question Number : 13 Question Id : 1927325413 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
BS standards are instituted for I.C. Engines to regulate:
Options :
1. ✖ Water pollution
2. ✖ Noise pollution
3. ✔ Air pollution
4. ✖ Soil pollution

Question Number : 14 Question Id : 1927325414 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
A hybrid vehicle is the one _____.
Options :
1. ✖ that uses only chemical energy
2. ✖ that uses only wind energy
3. ✖ that uses only electrical energy
4. ✔ that uses two or more distinct types of power

Question Number : 15 Question Id : 1927325415 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
_____ is not a type of reciprocating air compressor.
Options :
1. ✖ Single acting
2. ✖ Double acting
3. ✖ Diaphragm
4. ✔ Lobe

Question Number : 16 Question Id : 1927325416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
_____ is not a MPFI system.
Options :
1. ✖ Batched
2. ✖ Simultaneous
3. ✔ Continuous
4. ✖ Sequential

Question Number : 17 Question Id : 1927325417 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
A measure of the ability of a material to absorb radiation is called as _____.
Options :
1. ✔ Absorptivity
2. ✖ Conductivity
3. ✖ Transmissivity

4. ✖ Homogeneity

Question Number : 18 Question Id : 1927325418 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Fouling factor for liquid gasoline is _____.
Options :
1. ✔ 0.0008
2. ✖ 0.0001
3. ✖ 0.0003
4. ✖ 0.0005

Question Number : 19 Question Id : 1927325419 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
The product mass and specific heat of a fluid flowing in a heat exchanger is called as _____.
Options :
1. ✖ NTU
2. ✔ Capacity ratio
3. ✖ Fouling Factor
4. ✖ Correction Factor

Question Number : 20 Question Id : 1927325420 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Nature of a fluid flow does not depend upon _____.
Options :
1. ✖ Mean flow velocity
2. ✖ Density of fluid
3. ✖ Dynamic viscosity of the fluid
4. ✔ Volume of a fluid

Question Number : 21 Question Id : 1927325421 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
The value of convective coefficient of _____ varies between 3 W/m^2K to 7 W/m^2K.
Options :
1. ✖ Mercury
2. ✖ Water
3. ✔ Air
4. ✖ Sodium

Question Number : 22 Question Id : 1927325422 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
A plate has outside surface area 0.2 sq. m. and a surface temperature of 70°C. At any intermediate time air moves over the surface of the plate at a temperature of 20°C and gives rise to a surface coefficient equal to 45.4 W/ m^2K. Find the heat transfer rate?
Options :
1. ✔ 454 W
2. ✖ 424 W
3. ✖ 238 W
4. ✖ 681 W

Question Number : 23 Question Id : 1927325423 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Which of the following allows all the incident radiation to pass through it?

Options :

1. ✖ Streamlined body
2. ✖ Black body
3. ✔ Diathermanous body
4. ✖ Bluff Body

Question Number : 24 Question Id : 1927325424 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Equivalent emissivity is also known as _____.

Options :

1. ✖ Shape factor
2. ✔ Interchange factor
3. ✖ Correction factor
4. ✖ Configuration factor

Question Number : 25 Question Id : 1927325425 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Which one of the following has a lowest thermal conductivity?

Options :

1. ✖ Air
2. ✖ Ice
3. ✔ Glass Wool
4. ✖ Saw dust

Question Number : 26 Question Id : 1927325426 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

_____ decreases with increase in the _____ of the substance.

Options :

1. ✖ Absorptivity, Volume
2. ✔ Thermal Conductivity, Density
3. ✖ Thermal Conductivity, Absorptivity
4. ✖ Density, Absorptivity

Question Number : 27 Question Id : 1927325427 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The energy emitted by a _____ surface is time independent.

Options :

1. ✖ Convex
2. ✖ Concave
3. ✖ Flat
4. ✔ Black

Question Number : 28 Question Id : 1927325428 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Reynolds number is indicative of the relative importance of _____ and viscous effects in a fluid motion.

Options :

1. ✔ Inertial
2. ✖ Centrifugal
3. ✖ Centripetal
4. ✖ Thrust

Question Number : 29 Question Id : 1927325429 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

If the value of Reynolds number is varying between 2300-6000 then the flow is _____.

Options :

1. ✖ Laminar
2. ✖ Turbulent
3. ✔ Transient
4. ✖ Axial

Question Number : 30 Question Id : 1927325430 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

If a flow is turbulent, which type of force is dominating over the viscosity?

Options :

1. ✖ Body
2. ✖ Surface tension
3. ✖ Viscous
4. ✔ Inertia

Question Number : 31 Question Id : 1927325431 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Graphical representation of Shear Stress vs Strain for a Newtonian fluid is a _____.

Options :

1. ✖ parabolic curve
2. ✔ straight line
3. ✖ hyperbolic curve
4. ✖ logarithmic curve

Question Number : 32 Question Id : 1927325432 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Ratio of inertia force to the gravitational force that is called as _____.

Options :

1. ✖ Weber Number
2. ✖ Reynolds Number
3. ✖ Euler Number
4. ✔ Froude Number

Question Number : 33 Question Id : 1927325433 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Specific Speed of pelton turbine is _____ that of Kaplan turbine.

Options :

1. ✖ same as
2. ✔ lower than

3. ✖ higher than
4. ✖ unpredictable

Question Number : 34 Question Id : 1927325434 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

_____ is the difference of theoretical discharge and the actual discharge of reciprocating pump.

Options :

1. ✖ Head loss
2. ✔ Slip
3. ✖ Efficiency
4. ✖ Power loss

Question Number : 35 Question Id : 1927325435 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

The specific speed of a centrifugal pump, delivering 675 litres of water per second against a head of 18 meters at 675 RPM, is _____.

Options :

1. ✖ 61.35
2. ✖ 73.42
3. ✔ 63.46
4. ✖ 51.21

Question Number : 36 Question Id : 1927325436 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

A cube of size 1 m * 1 m * 1 m floats in water. What is the weight of the body if depth of immersion is 1 m?

Options :

1. ✔ 9.81 kN
2. ✖ 1 kN
3. ✖ 1.2 kN
4. ✖ 5 kN

Question Number : 37 Question Id : 1927325437 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

Hydraulic efficiency in a Francis turbine is _____.

Options :

1. ✖ the ratio between the actual water power to the shaft power
2. ✖ the ratio between the shaft power to runner power
3. ✔ the ratio between the runner power to the shaft power
4. ✖ the ratio between the shaft power to actual power supplied to water

Question Number : 38 Question Id : 1927325438 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

Static lift of centrifugal pump is _____.

Options :

1. ✔ the height the water will rise before arriving at the pump

2. ✖ total head
3. ✖ head loss due to friction
4. ✖ discharge head

Question Number : 39 Question Id : 1927325439 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

In Pelton turbine, the energy available in penstock is called as _____.

Options :

1. ✖ Shaft power
2. ✔ Water power
3. ✖ Runner power
4. ✖ Output power

Question Number : 40 Question Id : 1927325440 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

Metrology is defined as _____.

Options :

1. ✔ the science of precise and accurate measurement
2. ✖ the branch of study about the atmosphere
3. ✖ the branch of study about soil
4. ✖ the branch of geology specializing in chemistry, chemical structure

Question Number : 41 Question Id : 1927325441 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

Measurand is _____.

Options :

1. ✖ the system accuracy under measurement
2. ✔ the system quantity under measurement
3. ✖ the system precision under measurement
4. ✖ the system quality under measurement

Question Number : 42 Question Id : 1927325442 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

Closeness of a measured value with a standard value is called as _____.

Options :

1. ✖ Precision
2. ✔ Accuracy
3. ✖ Span
4. ✖ Range

Question Number : 43 Question Id : 1927325443 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

A voltmeter measures a voltage of 12.4 Volts but its true value is 12 Volts, then the relative error in measurement is _____%.

Options :

1. ✖ 1.25
2. ✖ 2.5
3. ✔ 3.33
4. ✖ 0.5

Question Number : 44 Question Id : 1927325444 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
The ammeter has a range of -10 A to 10 A, therefore its span is _____ A.
Options :
1. ✖ 5
2. ✖ 10
3. ✔ 20
4. ✖ -10

Question Number : 45 Question Id : 1927325445 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Strain Gauge is _____ type transducer.
Options :
1. ✔ Analog
2. ✖ Digital
3. ✖ Active
4. ✖ Proactive

Question Number : 46 Question Id : 1927325446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
PMMC is _____.
Options :
1. ✔ Permanent Magnet Moving Coil
2. ✖ Permissible Motion Moving Coil
3. ✖ Primary Magnet Metal Coil
4. ✖ Pressure Measuring Moving Coil

Question Number : 47 Question Id : 1927325447 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
_____ are used in load cell.
Options :
1. ✖ Pressure Gauges
2. ✔ Strain Gauges
3. ✖ Height gauges
4. ✖ Surface Gauges

Question Number : 48 Question Id : 1927325448 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Velocity of air is generally measured using _____.
Options :
1. ✖ Pyrometer
2. ✔ Anemometer
3. ✖ Ammeter
4. ✖ Manometer

Question Number : 49 Question Id : 1927325449 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

Which one of the following is a pressure measuring device?

Options :

1. ✖ Capiliary tube
2. ✖ Rotameter
3. ✖ Anemometer
4. ✔ Bourdon tube

Question Number : 50 Question Id : 1927325450 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

If a shaft is running at 300 RPM, its operating frequency is _____.

Options :

1. ✖ 10 Hz
2. ✖ 3 Hz
3. ✖ 6 Hz
4. ✔ 5 Hz

Question Number : 51 Question Id : 1927325451 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Between transmission and propeller shaft, _____ is located.

Options :

1. ✖ Differential
2. ✔ Overdrive
3. ✖ Clutch
4. ✖ Brake

Question Number : 52 Question Id : 1927325452 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The automatic transmission does not consists of _____.

Options :

1. ✖ epicyclic gearbox
2. ✖ torque convertor
3. ✖ multi-plate clutch
4. ✔ constant mesh gearbox

Question Number : 53 Question Id : 1927325453 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The stoichiometric air-fuel ratio of petrol is _____ : _____.

Options :

1. ✔ 14.7; 1
2. ✖ 14.5; 1
3. ✖ 25; 1
4. ✖ 12; 1

Question Number : 54 Question Id : 1927325454 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

While _____, the fuel injector provides more fuel.

Options :

1. ✖ decelerating
2. ✖ starting

3. ✖ idling
4. ✔ accelerating

Question Number : 55 Question Id : 1927325455 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Wheels are considered a part of the automobile _____.
Options :
1. ✔ chassis
2. ✖ transmission
3. ✖ steering
4. ✖ suspension

Question Number : 56 Question Id : 1927325456 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Spoilers at the front of a vehicle are known as:
Options :
1. ✖ Wings
2. ✔ Air Dams
3. ✖ Bonnet
4. ✖ Bumpers

Question Number : 57 Question Id : 1927325457 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
_____ force is the main force which acts and plays an important role in the braking system.
Options :
1. ✔ Frictional
2. ✖ Body
3. ✖ Centrifugal
4. ✖ Radial

Question Number : 58 Question Id : 1927325458 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
To prevent sludge formation, _____ is used as an oil additive.
Options :
1. ✖ Emulsifier
2. ✖ EP additive
3. ✖ Metal deactivator
4. ✔ Detergent

Question Number : 59 Question Id : 1927325459 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
_____ depends on weight of the vehicle.
Options :
1. ✖ Rolling resistance
2. ✔ Gradient resistance
3. ✖ Wind resistance
4. ✖ Corrosion resistance

Question Number : 60 Question Id : 1927325460 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The ratio of sensible heat to the total heat is _____.

Options :

1. ✔ Sensible heat factor
2. ✖ Latent heat factor
3. ✖ Conductive heat factor
4. ✖ Corrective heat factor

Question Number : 61 Question Id : 1927325461 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

When dry bulb temperature = wet bulb temperature = dew point temperature, the relative humidity is _____%.

Options :

1. ✖ 10
2. ✖ 50
3. ✖ 0
4. ✔ 100

Question Number : 62 Question Id : 1927325462 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

An air conditioner of a car works on _____.

Options :

1. ✔ Vapour compression cycle
2. ✖ Vapour absorption cycle
3. ✖ Air refrigeration cycle
4. ✖ Vortex tube refrigeration cycle

Question Number : 63 Question Id : 1927325463 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Pyrometer is used to measure _____.

Options :

1. ✖ Surface hardness
2. ✖ Carbon content in an alloy steel
3. ✖ Air velocity
4. ✔ Temperature of a surface

Question Number : 64 Question Id : 1927325464 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

In gas nitriding process, the nitrogen donating medium is _____.

Options :

1. ✖ Cyanide
2. ✔ Ammonia
3. ✖ Liquid Nitrogen
4. ✖ Chromium Nitide

Question Number : 65 Question Id : 1927325465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The purpose of Tempering process is to decrease _____.

Options :

1. ✗ Wear resistance
2. ✓ Brittleness
3. ✗ Ductility
4. ✗ Toughness

Question Number : 66 Question Id : 1927325466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The metal which is obtained by smelting iron ore in a blast furnace is called as _____.

Options :

1. ✓ Pig iron
2. ✗ Cast iron
3. ✗ Mild steel
4. ✗ Wrought iron

Question Number : 67 Question Id : 1927325467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Which one of the following has HCP crystal structure?

Options :

1. ✗ Delta iron
2. ✗ Gamma iron
3. ✗ Alpha iron
4. ✓ Epsilon iron

Question Number : 68 Question Id : 1927325468 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The temperature above which certain materials lose their permanent magnetic properties is called as _____.

Options :

1. ✗ Eutectic temperature
2. ✓ Curie temperature
3. ✗ Critical temperature
4. ✗ Ferromagnetic temperature

Question Number : 69 Question Id : 1927325469 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

A reaction where a solid phase and liquid phase of metal will together form a second solid phase at a particular temperature and composition is called as _____.

Options :

1. ✓ Peritectic reaction
2. ✗ Magnetic reaction
3. ✗ Nuclear reaction
4. ✗ Xeromorphic reaction

Question Number : 70 Question Id : 1927325470 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Bainite is the final structure of _____ steel.

Options :

1. ✓ austempered steel
2. ✗ martempered steel

3. ✖ normalised steel
4. ✖ carburised steel

Question Number : 71 Question Id : 1927325471 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Boronizing treatment does not give following property:
Options :
1. ✖ Improved hardness
2. ✖ Wear resistance
3. ✖ Resistance to corrosion
4. ✔ Thermal instability

Question Number : 72 Question Id : 1927325472 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
The process in which the parts to be heat treated are placed inside a water cooled copper coil and then heated above their transformation temperature by applying an alternating current to the coil is called as _____.
Options :
1. ✔ Induction Hardening
2. ✖ Carburizing
3. ✖ Nitriding
4. ✖ Cyaniding

Question Number : 73 Question Id : 1927325473 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Plasma Nitriding process is carried out in _____.
Options :
1. ✖ oil
2. ✔ vacuum
3. ✖ air
4. ✖ water

Question Number : 74 Question Id : 1927325474 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Which one of the following constituents helps to reduce brittleness and improves forgeability in an alloy steel?
Options :
1. ✖ Chromium
2. ✖ Copper
3. ✔ Manganese
4. ✖ Titanium

Question Number : 75 Question Id : 1927325475 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
What is fatigue?
Options :
1. ✖ the ability of a material to absorb energy during deformation, while resilience is its capacity to absorb the energy
2. ✖ the knack of material to defy indentation
3. ✔ the ability of a material to develop a characteristic behavior under repeated loading
4. ✖ the ability of a substance or object to spring back into shape

Question Number : 76 Question Id : 1927325476 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

If a mechanism is having 5 links, the total number of ICR of a mechanism are:

Options :

1. ✖ 2
2. ✖ 3
3. ✔ 10
4. ✖ 15

Question Number : 77 Question Id : 1927325477 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

To avoid the interference, the minimum number of teeth required for full depth and 14.5 degree pressure angle system are:

Options :

1. ✔ 32
2. ✖ 12
3. ✖ 18
4. ✖ 20

Question Number : 78 Question Id : 1927325478 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

There is no force acting on the follower and no motion of the follower possible when the pressure angle is _____.

Options :

1. ✔ 0 degree
2. ✖ 30 degree
3. ✖ 45 degree
4. ✖ 90 degree

Question Number : 79 Question Id : 1927325479 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The advantage of the self-locking condition of the brakes are utilized in which of the following system?

Options :

1. ✔ Conveyors
2. ✖ Bikes
3. ✖ Cars
4. ✖ Trucks

Question Number : 80 Question Id : 1927325480 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

To transmit the very high velocity ratios with small size gear, which of the following gear train is suitable?

Options :

1. ✖ Simple gear train
2. ✖ Compound gear train
3. ✖ Reverted gear train
4. ✔ Epicyclic gear train

Question Number : 81 Question Id : 1927325481 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

To maintain the speed of an engine within specific limits as per the load variation, which of the following machine element is used?

Options :

1. ✔ Governor
2. ✖ Flywheel
3. ✖ Dynamometer
4. ✖ Brake

Question Number : 82 Question Id : 1927325482 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Which of the following type of dynamometer is best suitable for measuring power of large power capacity machine?

Options :

1. ✖ Mechanical friction dynamometer
2. ✖ Hydraulic friction dynamometer
3. ✖ Electrical dynamometer
4. ✔ Torsion dynamometer

Question Number : 83 Question Id : 1927325483 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

In multiplate clutch, if the number of driving plates are 4 and number of driven plates are 5 then the number of effective friction surfaces will be _____.

Options :

1. ✖ 7
2. ✔ 8
3. ✖ 9
4. ✖ 10

Question Number : 84 Question Id : 1927325484 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Which of the following power transmitting element is used for high power transmission at a small distance?

Options :

1. ✖ Belt
2. ✖ Chain
3. ✖ Rope
4. ✔ Gear

Question Number : 85 Question Id : 1927325485 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

If the chain has 10 number of link and 6 number of lower pairs of one degree of freedom then the degree of freedom of the chain is equal to _____.

Options :

1. ✖ 24
2. ✔ 15
3. ✖ 27
4. ✖ 18

Question Number : 86 Question Id : 1927325486 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Which of the following statement is correct with respect to the Ackerman steering gear?

Options :

1. ✔ Only turning pairs are used

2. ✖ Only sliding pairs are used
3. ✖ Both sliding and turning pairs are used
4. ✖ Belt crank levers are used

Question Number : 87 Question Id : 1927325487 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
As per Kennedy's rule, if three bodies having relative motion with respect to one another, have three ICR, all of which lie _____.
Options :
1. ✖ on the same point
2. ✔ on the same straight line
3. ✖ on the same circle
4. ✖ on the same rectangle

Question Number : 88 Question Id : 1927325488 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
The number of teeth on the driving gear is 18 while the number of teeth on the driven gear are 90. If the module is 4mm, what will be the distance between the two gear shafts?
Options :
1. ✖ 54 mm
2. ✖ 108 mm
3. ✔ 216 mm
4. ✖ 432 mm

Question Number : 89 Question Id : 1927325489 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
In the reverted gear train, the input gear A having 20 teeth meshing with gear B having 60 teeth, the output gear D having 25 teeth meshing with gear C. The number of teeth on the gear C will be _____.
Options :
1. ✖ 15
2. ✖ 45
3. ✔ 55
4. ✖ 65

Question Number : 90 Question Id : 1927325490 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
In the simple band brake with the drum radius is 0.1 m, the tension on the tight and slack side of the band are 5000 N and 4000 N respectively. The braking torque of the band brake will be _____.
Options :
1. ✔ 100 Nm
2. ✖ 400 Nm
3. ✖ 500 Nm
4. ✖ 1000 Nm

Question Number : 91 Question Id : 1927325491 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Which of the following statement is incorrect with respect to the Watt governor?
Options :
1. ✖ The height of the governor is inversely proportional to the square of the angular speed.
2. ✖ The equilibrium speed of the governor is independent on ball weight.

3. ✖ The change in the height of the governor and the change in speed have opposite signs.
4. ✔ The change in the height of the governor is directly proportional to the change in the angular speed.

Question Number : 92 Question Id : 1927325492 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

In the monochord, if the length of string A is double than the length of string B, a note emitted by the string B will be _____ than a note emitted by string A.

Options :

1. ✖ half
2. ✖ double
3. ✖ four times
4. ✔ an octave

Question Number : 93 Question Id : 1927325493 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

The method of finding the fundamental frequency of vibration of a conservative system by using the conservation of energy principle is known as _____.

Options :

1. ✖ Fourier method
2. ✔ Rayleigh method
3. ✖ Coulomb method
4. ✖ Kirchhoff method

Question Number : 94 Question Id : 1927325494 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

In order to achieve the isolation of vibration, which of the following condition is essential?

Options :

1. ✔ $\frac{\omega}{\omega_n} > \sqrt{2}$
2. ✖ $\frac{\omega}{\omega_n} < \sqrt{2}$
3. ✖ $\frac{\omega}{\omega_n} > \frac{1}{\sqrt{2}}$
4. ✖ $\frac{\omega}{\omega_n} < \frac{1}{\sqrt{2}}$

Question Number : 95 Question Id : 1927325495 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

The circular natural frequency of the spring-mass system is in a vertical position is given by:

Options :

1. ✖ $\omega_n = \left(\frac{m}{k}\right)^{0.5}$
2. ✔ $\omega_n = \left(\frac{k}{m}\right)^{0.5}$

3. ✖ $\omega_n = \left(\frac{m}{k}\right)^2$

4. ✖ $\omega_n = \left(\frac{k}{m}\right)^2$

Question Number : 96 Question Id : 1927325496 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

For the vibratory system consisting mass (m), spring (k) and damper (c), the damping force corresponds to the displacement (x) is given by _____.

Options :

1. ✔ $c\dot{x}$

2. ✖ $c\ddot{x}$

3. ✖ cx

4. ✖ c

Question Number : 97 Question Id : 1927325497 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

If the large gun has to return to the original position after firing in the minimum time after firing, Which of the following damped system is suitable?

Options :

1. ✖ Under damped system
2. ✖ Over damped system
3. ✔ Critically damped system
4. ✖ Undamped system

Question Number : 98 Question Id : 1927325498 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

To design the dynamic vibration absorber, _____.

Options :

1. ✔ the natural frequency of the resulting system are kept away from the excitation frequency
2. ✖ the natural frequency of the resulting system and the excitation frequency are kept same
3. ✖ the excitation frequency are kept close to the natural frequency of the resulting system
4. ✖ the excitation frequency and the natural frequency of the system are not considered

Question Number : 99 Question Id : 1927325499 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

The damping force is affected by which of the following parameter in Coulomb damping?

Options :

1. ✖ Displacement
2. ✖ Velocity
3. ✔ Normal force
4. ✖ Area of contact

Question Number : 100 Question Id : 1927325500 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
An active isolation system for vibration isolation consist of which of the following component?
Options :
1. ✔ Sensors and actuators
2. ✖ Cork
3. ✖ Elastomer
4. ✖ Pneumatic spring

Question Number : 101 Question Id : 1927325501 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Which of the following instrument is suitable to records the vibrations of the huge structures like building and railway bridge?
Options :
1. ✔ Vibrometer
2. ✖ Accelerometer
3. ✖ Tachometer
4. ✖ LVDT

Question Number : 102 Question Id : 1927325502 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
If $g_{earth} = 6 * g_{moon}$ and the natural frequency of the suspension system of the vehicle on the moon is 600 rad/sec then the natural frequency of the same system on the earth will be _____.
Options :
1. ✖ 100 rad/sec
2. ✖ 3600 rad/sec
3. ✔ 600 rad/sec
4. ✖ 146.97 rad/sec

Question Number : 103 Question Id : 1927325503 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
A mechanical system consisting of a spring and damper. If the natural frequency of the system is 1 rad/sec and the damping factor is 0.6, then the damped natural frequency is given by _____.
Options :
1. ✖ 0.6 rad/sec
2. ✔ 0.8 rad/sec
3. ✖ 1.67 rad/sec
4. ✖ 0.36 rad/sec

Question Number : 104 Question Id : 1927325504 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
A beating phenomenon may occur if _____.
Options :
1. ✖ the forcing frequency and the natural frequency of the system are same
2. ✔ the natural frequency of the system and the forcing frequency are close to, but not exactly equal
3. ✖ the forcing frequency is double than the natural frequency of the system

4. ✗ the forcing frequency is half of the natural frequency of the system

Question Number : 105 Question Id : 1927325505 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

In a cylinder of a reciprocating engine, the pressure force of the expanding gas acting on the piston is F and the angle between the connecting rod and axis of cylinder is φ, the component of force which rotates the crankshaft is _____.

Options :

1. ✓ $\frac{F}{cos\varphi}$

2. ✗ $\frac{F}{tan\varphi}$

3. ✗ $F\tan\varphi$

4. ✗ $F\cos\varphi$

Question Number : 106 Question Id : 1927325506 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

According to ASME code for design of transmission shaft the allowable shear stress in the absence of keyways is _____.

Options :

1. ✗ 18% of yield strength
2. ✗ 30% of ultimate strength
3. ✓ 30% of yield strength
4. ✗ independent on both yield and ultimate strengths

Question Number : 107 Question Id : 1927325507 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

The helical compression spring with circular cross-section (wire diameter d) subjected to axial force F. Assume D is mean coil diameter of the spring then torsion T in the spring is _____.

Options :

1. ✗ T= Fd/3
2. ✓ T= FD/2
3. ✗ T= Fd/4
4. ✗ T= FD/5

Question Number : 108 Question Id : 1927325508 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

The temperature rises in the clutch or brake assembly is independent on _____.

Options :

1. ✗ specific heat capacity
2. ✗ mass of clutch or brake
3. ✓ clutch torque
4. ✗ initial temperature

Question Number : 109 Question Id : 1927325509 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

The tensile stress in the rim of the flywheel is _____.

Options :

1. ✔ directly proportional to square of linear velocity at mean radius of the rim
2. ✖ inversely proportional to mass density
3. ✖ directly proportional to the square of mass density
4. ✖ independent on both mass density and linear velocity at mean radius of the rim

Question Number : 110 Question Id : 1927325510 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

For constant maximum torque, length of the shaft and same material properties, if diameter of transmission shaft is doubled (2d), then angle of twist would be _____.

Options :

1. ✖ 1/4th of original angle of twist when diameter is d.
2. ✖ 1/8th original angle of twist when diameter is d
3. ✔ 1/16th original angle of twist when diameter is d.
4. ✖ 1/32th original angle of twist when diameter is d.

Question Number : 111 Question Id : 1927325511 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

In the helical compression spring, if total number of coils and free length are 10 and 90 mm respectively. The pitch of the coil is _____.

Options :

1. ✖ 15 mm
2. ✖ 5 mm
3. ✖ 20 mm
4. ✔ 10 mm

Question Number : 112 Question Id : 1927325512 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The 360? hydrodynamic bearing is required to design for radial load 2.5 kN. The bearing pressure is _____.

Journal speed = 1500 rpm, journal diameter = 50 mm, bearing length = 50 mm

Options :

1. ✖ 2.5 MPa
2. ✔ 1.0 MPa
3. ✖ 2.0 MPa
4. ✖ 0.5 MPa

Question Number : 113 Question Id : 1927325513 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The vehicle of weight W newton, is travelling with velocity 9.81 m/s. During the period of braking of the kinetic energy absorbed by the brake in joule is _____.

Options :

1. ✖ W/2
2. ✖ 2W
3. ✖ Wg^2
4. ✔ Wg/2

Question Number : 114 Question Id : 1927325514 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Calculate force acting on the connecting rod for diesel engine.

Data: Cylinder bore = 100 mm, Length of connecting rod = 350 mm, Maximum gas pressure 4 MPa.

Options :

1. ✔ 10π kN

2. ✖ 100π kN

3. ✖ 35π kN

4. ✖ 3.5π kN

Question Number : 115 Question Id : 1927325515 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical Correct Marks : 2 Wrong Marks : 0.66

A steel plate, 100 mm width and $10\sqrt{2}$ mm thickness is required to weld with another steel plate by using double parallel fillet welds. The plates are under the action of static force of 50 kN which is tensile. If the allowable shear stress in the weld is 100 MPa, the minimum required length would be …….

Options :

1. ✖ $50/\sqrt{2}$ mm

2. ✔ $50\sqrt{2}$ mm

3. ✖ 50 mm

4. ✖ 100 mm

Question Number : 116 Question Id : 1927325516 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical Correct Marks : 2 Wrong Marks : 0.66

The propeller shaft of diameter 10 mm is subjected to equal amount of bending and twisting moment as 1000 N.mm. The maximum shear stress in the shaft would be _____.

Options :

1. ✖ $16\sqrt{2}$

2. ✖ $\frac{8\sqrt{2}}{\pi}$

3. ✔ $32/\sqrt{2}\pi$

4. ✖ $\frac{32\sqrt{2}}{\pi}$

Question Number : 117 Question Id : 1927325517 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical Correct Marks : 2 Wrong Marks : 0.66

A railway wagon moving at a velocity of m/s is rested by a bumper composed of two identical helical compression springs arranged in parallel. The mass of the wagon is 2000 kg. Both springs are compressed by 200 mm during bringing the wagon to the rest. The maximum

force acting on each spring is _____.

Options :

1. ✔ 80 kN
2. ✖ 40 kN
3. ✖ 40 N
4. ✖ 80 N

Question Number : 118 Question Id : 1927325518 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

An oil immersed multi-disc clutch is used for a scooter engine. The toque transmitted by clutch is 10 N.m and coefficient of friction in the wet condition is 0.2. The inner and outer diameter of friction lining are 75 mm and 125 mm respectively. If operating force is 200 N, calculate the required number of contacting surfaces without considering effect of radial slots. Assume uniform wear theory.

Options :

1. ✖ 3
2. ✖ 4
3. ✔ 5
4. ✖ 6

Question Number : 119 Question Id : 1927325519 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

A full hydrodynamic bearing used for the electric motor. The journal diameter and static load acting on the bearing are 50 mm and 350 N respectively. Assuming bearing pressure as 2 MPa, the length of the bearing is _____.

Options :

1. ✖ 3 mm
2. ✔ 3.5 mm
3. ✖ 5 mm
4. ✖ 2.5 mm

Question Number : 120 Question Id : 1927325520 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Silica sand contains _____ to _____ per cent silicon dioxide and characterized by a high softening temperature and thermal stability.

Options :

1. ✖ 10 ; 30
2. ✖ 50; 70
3. ✔ 80; 90
4. ✖ 20; 50

Question Number : 121 Question Id : 1927325521 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

High dimensional accuracy of the order of ± 0.08mm and very thin section (0.76mm) can be produced by:

Options :

1. ✖ True centrifugal casting
2. ✔ Investment casting
3. ✖ Sand casting
4. ✖ Gravity die casting

Question Number : 122 Question Id : 1927325522 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

In Crystal system in Monoclinic system axial lengths and angles are _____.

Options :

1. ✗ $a = b = c, \alpha = \gamma = 90^\circ \neq \beta$

2. ✗ $a = b \neq c, \alpha = \beta = 90^\circ \gamma = 120^\circ$

3. ✓ $a \neq b \neq c, \alpha = \gamma = 90^\circ \neq \beta$

4. ✗ $a = b = c, \alpha = \beta = \gamma \neq 90^\circ$

Question Number : 123 Question Id : 1927325523 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

Which of the following is not true about core chaplet used in casting?

Options :

1. ✗ It is a metal piece
2. ✓ It is removed after casting
3. ✗ It prevents core in shifting its position
4. ✗ It gives extra support to large and odd shaped cores

Question Number : 124 Question Id : 1927325524 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

Pig iron is a product of which furnace?

Options :

1. ✗ Cupola furnace
2. ✗ Pudding furnace
3. ✗ Electrical furnace
4. ✓ Blast furnace

Question Number : 125 Question Id : 1927325525 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

Dressing and truing is done to grinding wheel to:

Options :

1. ✓ remove worn out grains from the face of the wheel
2. ✗ apply the heat treatment to the grinding wheel
3. ✗ apply lubrication to the grinding wheel
4. ✗ wash grinding wheel

Question Number : 126 Question Id : 1927325526 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

In Electro-Chemical Machining process, metal removal rate and surface finish are directly proportional:

Options :

1. ✗ to electrolytes
2. ✗ to voltages
3. ✗ to frequency
4. ✓ to current density

Question Number : 127 Question Id : 1927325527 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66

In gas welding process using neutral flame, oxygen to acetylene ratio is _____ and temperature is of the order of _____.

Options :

1. ✖ 1.2 to 2 and 2700° C
2. ✔ 1.1 to 1 and 3200° C
3. ✖ 2.2 to 1.1 and 4000° C
4. ✖ 1.2 to 3 and 2500° C

Question Number : 128 Question Id : 1927325528 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical Correct Marks : 2 Wrong Marks : 0.66

Difference between brazing and soldering is:

Options :

1. ✔ Filler metal is having the melting point greater than 450° C for brazing and filler metal is having the melting point less than 450° C for soldering
2. ✖ Filler metal is having the melting point greater than 450° C for soldering and filler metal is having the melting point less than 450° C for brazing
3. ✖ Filler metal is having the melting point equal to 450° C for brazing and filler metal is having the melting point equal 450° C for soldering
4. ✖ Filler metal is having the melting point same 450° C for brazing and filler metal is having the melting point same 450° C for soldering

Question Number : 129 Question Id : 1927325529 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical Correct Marks : 2 Wrong Marks : 0.66

The principal form of surface produced in a lathe is:

Options :

1. ✖ Square surface
2. ✖ Rectangular surface
3. ✖ Hexagonal surface
4. ✔ Cylindrical surface

Question Number : 130 Question Id : 1927325530 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical Correct Marks : 2 Wrong Marks : 0.66

In down milling (climb milling) the cutting tool rotates in the _____ direction as that of the table movement.

Options :

1. ✖ Opposite direction
2. ✖ Multiple direction
3. ✖ Same and opposite direction
4. ✔ Same direction

Question Number : 131 Question Id : 1927325531 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical Correct Marks : 2 Wrong Marks : 0.66

The surface on the drill, which extends behind the cutting lip to the following flute is termed as _____.

Options :

1. ✔ Flank
2. ✖ Shank
3. ✖ Face
4. ✖ Tang

Question Number : 132 Question Id : 1927325532 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical Correct Marks : 2 Wrong Marks : 0.66

What is the true statement about planer machine:

Options :

1. ✖ One cutting tool can be used at time.
2. ✔ More than one cutting tool can be used at time.
3. ✖ No cutting tool can be used at time.
4. ✖ Cutting tool can be used at time.

Question Number : 133 Question Id : 1927325533 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Find the metal removal rate (mm^3/min) for the 60 min/min cutting speed, 20 mm depth of cut and 0.2 mm/min feed rate.

Options :

1. ✖ 260
2. ✖ 250
3. ✔ 240
4. ✖ 220

Question Number : 134 Question Id : 1927325534 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

For the drilling operation, if the diameter of the twist drill is D mm, rotational speed of the drill is N rpm and f is the feed rate in mm/rev, then the material removal rate is given by _____.

Options :

1. ✖ $\pi D f N/4$
2. ✔ $\pi D^2 f N/4$
3. ✖ $\pi D^2 f N^2/4$
4. ✖ $\pi D f N^2/4$

Question Number : 135 Question Id : 1927325535 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

Which of the following is probabilistic model used as quantitative technique for decision makings?

Options :

1. ✖ Linear programming
2. ✖ Break-even analysis
3. ✔ Decision tree
4. ✖ Capital budgeting

Question Number : 136 Question Id : 1927325536 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The cost and time per unit of product is highest in _____ production system.

Options :

1. ✔ Job
2. ✖ Batch
3. ✖ Mass
4. ✖ Process

Question Number : 137 Question Id : 1927325537 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
A number of workers working in plant A is 200 and number of products manufactured per unit time is 10. Therefore, productivity of the plant is _____.
Options :
1. ✖ 1 / 2
2. ✖ 1 / 200
3. ✖ 1 / 10
4. ✔ 1 / 20

Question Number : 138 Question Id : 1927325538 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
The type of management which related to research on materials, machines and processes is _____.
Options :
1. ✖ Development management
2. ✖ Distribution management
3. ✖ Financial management
4. ✔ Production management

Question Number : 139 Question Id : 1927325539 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
The material handling equipment used for granular materials is _____.
Options :
1. ✖ Lifts
2. ✔ Belt conveyor
3. ✖ Roller conveyor
4. ✖ Chain conveyor

Question Number : 140 Question Id : 1927325540 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
One of the following techniques used to absorb the fluctuations in demand _____.
Options :
1. ✖ Linear regression analysis
2. ✖ Weighted moving average method
3. ✖ Delphi method
4. ✔ Linear programming method

Question Number : 141 Question Id : 1927325541 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Economic Batch Quantity (EBQ) is also known as:
Options :
1. ✔ optimum production quantity
2. ✖ maximum production quantity
3. ✖ minimum production quantity

4. ✖ average production quantity

Question Number : 142 Question Id : 1927325542 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
In cost analysis and control, the material cost comes under _____.
Options :
1. ✖ Fixed costs
2. ✖ Controllable costs
3. ✔ Variable cost
4. ✖ semi-variable cost

Question Number : 143 Question Id : 1927325543 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Choose from following the wage incentive plan used for direct workers _____.
Options :
1. ✔ Emerson's efficiency
2. ✖ Merit rating
3. ✖ Fringe benefits
4. ✖ Parabolic piece rate

Question Number : 144 Question Id : 1927325544 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
The marketing mix depends on four principal variables such as _____.
Options :
1. ✖ Quality, quantity, efficiency, price
2. ✔ Product, price, promotion, distribution
3. ✖ Price, profit, quality, quantity
4. ✖ Promotion, distribution, efficiency, profit

Question Number : 145 Question Id : 1927325545 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
In network planning method, the latest start time depends on _____.
Options :
1. ✖ Total project time
2. ✖ Earliest start time
3. ✖ Earliest finish time
4. ✔ Duration of activity

Question Number : 146 Question Id : 1927325546 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical
Correct Marks : 2 Wrong Marks : 0.66
Calculate rate of investment.

Sales = Rs.1,80,000
Profit = Rs.18,000
Investment = Rs.90,000
Options :
1. ✖ 5 percent
2. ✖ 15 percent
3. ✔ 20 percent

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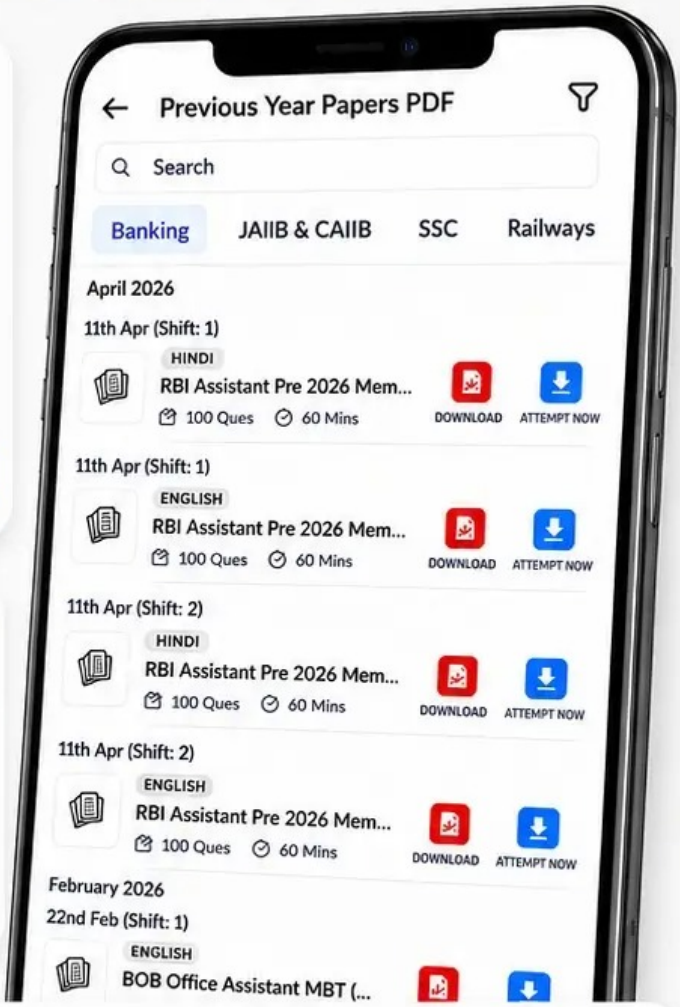
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Question Number : 147 Question Id : 1927325547 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The fixed cost for the year 2017-18 is Rs. 8 lakhs. The variable cost per unit and sell price per unit are Rs. 40 and Rs. 200 respectively. The break-even point is _____.

Options :

1. ✔ 10 lakhs
2. ✖ 20 lakhs
3. ✖ 15 lakhs
4. ✖ 5 lakhs

Question Number : 148 Question Id : 1927325548 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

If set-up cost is Rs. 10 per set up, annual requirement of parts is 10,000, inventory cost 10% of value/year and cost per part is Rs. 2. Then economic batch quantity would be _____.

Options :

1. ✖ 500
2. ✔ 1000
3. ✖ 2000
4. ✖ 1500

Question Number : 149 Question Id : 1927325549 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The fixed costs for year 2017-18 are Rs. 8 lakhs. The sales estimated for the same period valued at Rs. 20 lakhs. The variable cost per unit is Rs. 40 and sales price per unit is Rs. 200. The total variable cost will be _____.

Options :

1. ✖ 8 lakhs
2. ✖ 10 lakhs
3. ✔ 4 lakhs
4. ✖ 2 lakhs

Question Number : 150 Question Id : 1927325550 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 2/3 Option Orientation : Vertical

Correct Marks : 2 Wrong Marks : 0.66

The batch contains 10,000 piston pins out of which 150 are defective. If a sample of 4 pins is drawn for inspection, what would be probability of first drawn pin is defective?

Options :

1. ✖ 0.15
2. ✔ 0.015
3. ✖ 0.014
4. ✖ 0.004