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Mechanical Engineering

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Mechanical Engineering

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Section Number: 1 Section type: Online Mandatory or Optional: Mandatory Number of Questions: 150 Number of Questions to be attempted: 150 Section Marks: 150 Display Number Panel: Yes Group All Questions: No

Sub-Section Number: 1

Sub-Section Id: 57996529

Question Shuffling Allowed: No

Question Number: 1 Question Id: 5799652430 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

No liquid can exist as a liquid at

Options:

0°C temperature

200°C temperature

Zero pressure

Zero Viscosity

Question Number: 2 Question Id: 5799652431 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0
Gibb's free energy G is defined as
Options:
G = H - TS
G = H + TS
G = U - TS
G = U + TS
Question Number: 3 Question Id: 5799652432 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0
The efficiency of Carnot Engine is 0.75. If cycle is reversed, C.O.P of reversed Carnot cycle will be
Options : 1.25
1.33
1.75
1.95
Question Number: 4 Question Id: 5799652433 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0
Sublimation is the process of
Options:
Changing from gas state to solid state
Changing from solid state to gas state
Changing from liquid to vapour state
Existence of solids, liquids and gases simultaneously
Question Number: 5 Question Id: 5799652434 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0
Thermal efficiency of Otto cycle that of Brayton cycle for the given same compression process
Options : same as
less than
greater than
not comparable to

Question Number: 6 Question Id: 5799652435 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The substance which is homogeneous and invariable in chemical composition

throughout its mass is called as . .

Options:

ideal substance

pure substance

solid substance

gas substance

Question Number: 7 Question Id: 5799652436 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The efficiency of Diesel cycle approaches to Otto cycle efficiency when

Options:

cut-off is increased

cut-off is decreased

cut-off is zero

cut-off is constant

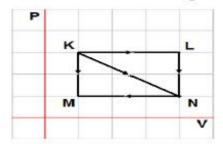
Question Number: 8 Question Id: 5799652437 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

An ideal gas can be taken from point K to point N in three different paths:

 $K \rightarrow L \rightarrow N$, $K \rightarrow N$, $K \rightarrow M \rightarrow N$. Which of the following is a true statement?



Options:

The same work is done during each process.

The same amount of heat is added to the gas during each process

The same change in internal energy during each process

The same entropy generated during each process

Question Number: 9 Question Id: 5799652438 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Increase in entropy of a system represents

Options:

Decrease of temperature

Increase of Pressure

Increase of temperature

Degradation of energy

Question Number: 10 Question Id: 5799652439 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The more effective way of increasing efficiency of Carnot Engine is

Options:

Increase of Source temperature

Decrease of Source temperature

Increase of Sink temperature

Decrease of Sink temperature

Question Number: 11 Question Id: 5799652440 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The absolute zero pressure will be

Options:

when the molecular momentum of the system becomes zero

at sea level

at the temperature of -273 K

at the centre of the earth

Question Number: 12 Question Id: 5799652441 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The behaviour of superheated vapour is similar to that of

Options:

perfect gas

steam

air

ordinary gas

Question Number: 13 Question Id: 5799652442 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The efficiency of Stirling cycle is Carnot cycle for the same

temperature limits.

Options:

Greater than

Less than

Equal to

Cannot compare

Question Number: 14 Question Id: 5799652443 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Options:
Loss of qualitative energy
Loss of energy
Loss of enthalpy
Loss of entropy
Question Number: 15 Question Id: 5799652444 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 The exergy of the system will depend on
Options:
Entropy generation
Surrounding temperature
Surrounding pressure
All The Given Answers
Question Number: 16 Question Id: 5799652445 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 The specific heat of an ideal gas depend on its
2000 - 100 -
Options: Pressure
Volume
Entropy
Temperature
Question Number: 17 Question Id: 5799652446 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0
Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 For effective working of fins, the thickness of the fins should be
Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 For effective working of fins, the thickness of the fins should be Options:
Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 For effective working of fins, the thickness of the fins should be
Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 For effective working of fins, the thickness of the fins should be Options:
Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 For effective working of fins, the thickness of the fins should be Options: large small
Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 For effective working of fins, the thickness of the fins should be Options: large small thickness of fin does not affect fin effectiveness
Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 For effective working of fins, the thickness of the fins should be Options: large small thickness of fin does not affect fin effectiveness unpredictable Question Number: 18 Question Id: 5799652447 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 In free convective heat transfer transition from laminar to turbulent flow is governed by the critical value of the
Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 For effective working of fins, the thickness of the fins should be Options: large small thickness of fin does not affect fin effectiveness unpredictable Question Number: 18 Question Id: 5799652447 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 In free convective heat transfer transition from laminar to turbulent flow is

https://www.freshersnow.com/previous-year-question-papers/

Reynolds number

Grashoff's number

Prandtl number and Grashoff's number

Question Number: 19 Question Id: 5799652448 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

When is arithmetic mean temperature difference used instead of LMTD in heat exchanger?

Options:

When temperature profiles of two fluids of heat exchanger are sloping downward with curve

When the temperature profiles of two fluids of heat exchanger are sloping upward with curve

When the temperature profiles of two fluids of heat exchanger are straight

When one of the temperature profile for the fluid is straight

Question Number: 20 Question Id: 5799652449 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Nusselt number / (Reynolds number X Prandtl number) is equal to

Weber Number

Stanton Number

Biot Number

Mach Number

Question Number: 21 Question Id: 5799652450 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The rate of heat flow through a hallow sphere of inner radius 0.25 m and outer radius 0.35m, whose thermal conductivity is 5 W/m K, maintained at temperatures of 400°C and 300°C respectively equal to

Options:

2425 W

5495 W

2747.5 W

4850 W

Question Number: 22 Question Id: 5799652451 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

By which of the following modes of heat transfer, Heat is mainly transferred from an insulated pipe to the surrounding still air.

Options:

conduction

Radiation

forced convection

natural convection

Question Number: 23 Question Id: 5799652452 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The Newmann boundary condition on heat transfer surface means,

Options:

$$q/A = -k\partial T/\partial x$$
 at $w = 0$

$$k\partial T/\partial x = 0$$
 at $w = 0$

$$k\partial T/\partial x = h [T_w - T_\infty] at w = 0$$

$$k\partial T/\partial x = \sigma [T_1^4 - T_2^4]$$
 at $w = 0$

Question Number: 24 Question Id: 5799652453 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The maximum temperature raised in the solid sphere with internal heat generation is given by

Options:

 $T_w + Q_q R^2/6K$

 $T_w - Q_a R^2/6K$

 $T_w + Q_a/6K$

Tw - Qa/6K

Question Number: 25 Question Id: 5799652454 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

It is desired to increase the heat dissipation rate from the surface of an electronic device of spherical shape of 5 mm radius exposed to convection with h=10 W/m² K, by encasing it in a spherical sheath of conductivity 0.04 W/m K. For maximum heat flow, the diameter of sheath should be

Options:

18 mm

12 mm

8 mm

16 mm

Question Number: 26 Question Id: 5799652455 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The capillary tube is not used in large capacity refrigeration systems because

Options:

Cost is too high

Capacity control is not possible

It is made of copper

Required pressure drop cannot be achieved

Question Number: 27 Question Id: 5799652456 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Bell Coleman cycle used for air refrigeration system is a

Options:

Reversed Carnot cycle

Reversed Otto cycle

Reversed Joule cycle

Reversed Rankine cycle

Question Number: 28 Question Id: 5799652457 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In the compression process of vapour compression refrigeration system

Options:

Enthalpy before compression is same as enthalpy after the compression

Internal energy before compression is same after the compression

Temperature before compression is same as temperature after the compression

Entropy before compression is same as entropy after the compression

Question Number: 29 Question Id: 5799652458 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

In an aqua ammonia vapour absorption refrigeration system, the refrigerant and

absorbent respectively are

Options:

water and water

water and lithium bromide

ammonia and lithium bromide

ammonia and water

Question Number: 30 Question Id: 5799652459 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The leakage in a refrigeration system using ammonia is detected by

Options:

halide torch

sulphur sticks

soap solution

hot water

Question Number: 31 Question Id: 5799652460 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option:

Correct: 1 Wrong: 0

If the degree of saturation of air is zero, the air is said to be

Options:

superheated air

unsaturated air

saturated air

atmospheric air

Question Number: 32 Question Id: 5799652461 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The constant partial pressure lines on the psychrometric chart are

Options:

horizontal lines

vertical lines

inclined lines

curved lines

Question Number: 33 Question Id: 5799652462 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Which of the following components of reaction turbine increases the head on the

turbine by an amount equal to the height of runner outlet above the tail race?

Options:

Draft tube

Guide vanes

Scroll casing

Moving blades

Question Number: 34 Question Id: 5799652463 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The Euler equation for turbo machine is derived on the basis of

Options:

Rate of change of mass

Rate of change of angular momentum

Rate of change of linear momentum

Rate of change of velocity

Question Number : 35 Question Id : 5799652464 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

The mass flow rate of air compressed in axial flow compressor is

centrifugal compressor.

Options:

Equal to

Greater than

Unpredictable

Question Number : 36 Question Id : 5799652465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

What should be the ratio of blade speed of jet speed for the maximum efficiency of a Pelton wheel?

Options:

0.25

0.50

0.75

1.00

Question Number : 37 Question Id : 5799652466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

Which one of the following pumps is NOT a positive displacement pump?

Options:

Reciprocating Pump

Centrifugal Pump

Lobe Pump

Vane Pump

Question Number : 38 Question Id : 5799652467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

In a Parson's turbine stage, the blade velocity is 320 m/s at the mean radius and the rotor blade exit angle is 30°. For minimum kinetic energy of the steam leaving the stage, the steam velocity at the exit of the rotor will be

Options:

160 /√3 m/s

320 / √3 m/s

640 / √3 m/s

640 m/s

Question Number : 39 Question Id : 5799652468 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

The volumetric efficiency of a compressor can be given by the equation in terms of clearance ratio K, pressure ratio p2/p1 is

Options:

 $1 - K + K(p_2/p_1)^{(1/n)}$

1+K-K(p₂/p₁)(1/n)

1-K-K(p₂/p₁)^(1/n)

```
1+K+K(p_2/p_1)^{(1/n)}
```

Question Number: 40 Question Id: 5799652469 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The specific speed of a hydraulic pump is the speed of geometrically similar pump working against a unit head and

Options:

Delivering unit quantity of water

Consuming unit power

Having unit velocity of flow

Having unit radial velocity

Question Number: 41 Question Id: 5799652470 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

What is the need of air vessel used in a reciprocating pump?

To obtain a continuous supply of water at uniform rate

To reduce suction head

To increase the delivery head

To reduce Cavitation

Question Number: 42 Question Id: 5799652471 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Cavitation in a hydraulic turbine is most likely to occur at the turbine

Options:

Entry

Exit

Stator exit

Rotor exit

Question Number: 43 Question Id: 5799652472 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The linear velocity of a body rotating at ω rad/s along a circular path of radius r is

Options:

w.r

w/r

 ω^2 r

 ω^2/r

Question Number: 44 Question Id: 5799652473 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The coefficient of restitution for inelastic bodies is

Options:

zero

between zero and one

one

more than one

Question Number: 45 Question Id: 5799652474 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The relation between number of links and number of lower pairs is given as n =

2p - 4. If L.H.S is less than R.H.S of this equation then the chain is

Options:

constrained

locked

structure

unconstrained

Question Number: 46 Question Id: 5799652475 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The cam and follower without a spring forms a

Options:

Lower pair

Higher pair

self closed pair

forced closed pair

Question Number: 47 Question Id: 5799652476 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The cam follower extensively used in air-craft engine is

Options:

knife edge follower

flat faced follower

spherical face follower

roller follower

Question Number: 48 Question Id: 5799652477 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The two links OA and OB are connected by a pin joint at O. If the link OA turns with angular velocity ω_1 rad/s in the clockwise direction and the link OB turns with angular velocity ω_2 rad/s in the anti clockwise direction, then the rubbing velocity at the pin O is

Options:

```
\omega_1 . \omega_2 . r
(\omega_1 - \omega_2).r
(\omega_1 + \omega_2).r
(\omega_1 - \omega_2).2r
```

Question Number: 49 Question Id: 5799652478 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The efficiency of screw jack is given by

Options:

 $Tan(\alpha+\phi)$ Tan a Tana $Tan(\alpha+\phi)$ $Tan(\alpha-\phi)$ Tan a Tan a $Tan(\alpha-\phi)$

Question Number: 50 Question Id: 5799652479 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In a cone pulley, If the sum of the radii of the pulleys on the driving and driven shafts is constant, then

Options:

open belt drive is recommended

both open and closed belt drive are recommended

closed belt drive is recommended

drive is recommended depending upon torque

Question Number: 51 Question Id: 5799652480 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In under damped vibrating system, if x1 and x2 are the successive values of the amplitude on the same side of the mean position, then the logarithmic decrement is equal to

Options:

$$\frac{x1}{x2}$$

$$\log\left(\frac{x_1}{x_2}\right)$$

$$\log_e\left(\frac{x^2}{x^1}\right)$$

Question Number: 52 Question Id: 5799652481 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In a locomotive, The maximum magnitude of the unbalanced force acting along the perpendicular to the line of stroke is

Options:

tractive force

swaying force

hammer blow

None of the given answers

Question Number: 53 Question Id: 5799652482 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

In a slider crank mechanism for I/r ratio of 4, the percentage of stroke converted by piston corresponding to 90° movement of crank from top dead centre will be

Options:

0 %

less than 50%

greater than 50%

100 %

Question Number: 54 Question Id: 5799652483 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

Coriorlis component of acceleration exists whenever a point moves along a path

that has

Options:

local acceleration

gravitational acceleration

tangential acceleration

centripetal acceleration

Question Number: 55 Question Id: 5799652484 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

According to the law of gearing

Ontions

common normal at the point of contact always passes through a fixed point on the line joining the centres of rotation

The gears should be cut with the cutter having same module

the interference should be avoided

clearance should be minimized

Question Number: 56 Question Id: 5799652485 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The locus of a point on the circumference of a circle which rolls without slipping on a fixed straight line is known as **Options:** Cycloid Involute Hypocycloid Epicycloid Question Number: 57 Question Id: 5799652486 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 A 0.5 kg weight attached to a light spring elongates by 0.981 mm. The natural frequency of the system should be **Options:** 6 Hz 16 Hz 26 Hz 32 Hz Question Number: 58 Question Id: 5799652487 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 A vibrating system with unity as damping factor will be **Options:** critically damped damped to safe limits partly damped free from vibrations. Question Number: 59 Question Id: 5799652488 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 High pressure angle of gear results in **Options:** weaker teeth bigger size teeth wider base and stronger teeth narrow base and weaker teeth

Question Number : 60 Question Id : 5799652489 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

In a flat belt pulley drive, the rim of the pulley is slightly crowned to

Options:

increase the strength of the pulley

increase the stiffness of the stiffness

keep the belt running centrally on the pulley rim increase the power transmitted

Question Number: 61 Question Id: 5799652490 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Herringbone gear is a type of

Options:

spiral bevel gear

crossed helical gear

hypoid gear

double-helical gear with no groove in between the left and right inclinations

Question Number: 62 Question Id: 5799652491 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

A shaft transmits power of 30 kW. According to maximum principle stress theory and shear theory diameter of shaft is 70 mm and 73 mm respectively. Tensile stress acting on the shaft is 50 MPa. What will be the shaft diameter to transmit power?

Options:

60 mm

65 mm

73 mm

82 mm

Question Number: 63 Question Id: 5799652492 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The property of a material which enables it to resist fracture due to high impact

loads is known as

Options:

Brittleness

Ductility

Toughness

Hardness

Question Number: 64 Question Id: 5799652493 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

Two mating spur gears have 40 and 120 teeth respectively. The pinion rotates at 1200 rpm and transmits a torque of 20 Nm. The torque transmitted by the gear is

Options:

10 N -m

20 N - m 40 N - m 60 N - m Question Number: 65 Question Id: 5799652494 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 Square key of side "d/4" each and length I is used to transmit torque "T" from the shaft of diameter "d" to the hub of a pulley. Assuming the length of the key to be equal to the thickness of the pulley, the average shear stress developed in the key is given by **Options:** 4T/ld 16T/ld² 8T/ld² $16T/\pi d^{3}$ Question Number: 66 Question Id: 5799652495 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 A beam strongest in flexural is one which has **Options:** maximum bending stress maximum area of cross section maximum section modulus maximum moment of inertia Question Number: 67 Question Id: 5799652496 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 The factor of safety considered for Euler's formula for crippling load is **Options:** 1 3 5 Question Number: 68 Question Id: 5799652497 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Which of the following assumption in the theory of pure torsion is false

Options:

All radii get twisted due to torsion

the twist is uniform along the length

the shaft is uniform circular section through out

cross section plane before to the cross section plane before the cross section p

Question Number: 69 Question Id: 5799652498 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

When a closely coiled helical spring of mean diameter {D} is subjected to an axial load (W), the stiffness of the spring is given by

Options:

Cd4/D3n

Cd4/2D3n

Cd4/4D3n

Cd4/8D3n

Question Number: 70 Question Id: 5799652499 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

A composite shaft consisting of two stepped portions having spring constant k₁ and k₂ is held between two rigid supports at the ends. Its equivalent spring constant is

Options:

 $(k_1 + k_2)/2$

 $(k_1 + k_2)/k_1k_2$

 $k_1k_2/(k_1 + k_2)$

 $(k_1 + k_2)$

Question Number: 71 Question Id: 5799652500 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In a thin cylindrical shell subjected to an internal pressure p, the ratio of longitudinal stress to the hoop stress is

Options:

0.5

0.75

1.5

Question Number: 72 Question Id: 5799652501 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

According to Euler's column theory, the crippling load of a column of length (I), with one end is fixed and the other end is hinged is

Options:

 $\pi^2 = 1/1^2$

 $\pi^2 = 1/41^2$

 $2\pi^2 E I / I^2$

 $4 \pi^2 E I / I^2$

Single Line Question Option : No Option Orientation : Vertical Correct : 1 Wrong : 0
The eye bolts are used for
Options: transmission of power
ifting and transporting heavy machines
absorbing shocks and vibrations
ocking devices
Question Number: 74 Question Id: 5799652503 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 Which of the following welded joints is designed for shear strength?
Options: transverse fillet welded joint
parallel fillet welded joint
butt welded joint
transverse butt weld joint
Question Number: 75 Question Id: 5799652504 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0
A plate with a circular hole in the centre is subjected to a pull of \mathbf{P} . The maximum stress nduced at the edge of the hole is (if the normal stress is ' \mathbf{f} ')
Options:
3 f
2 f
f/2 f/3
Question Number: 76 Question Id: 5799652505 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0
The angle of an ACME thread is degrees.
Options :
29
49
59
Question Number: 77 Question Id: 5799652506 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Correct: 1 Wrong: 0 In a butt or half-lap coupling, the sleeve is normally fitted to the shafts by means of .
Options :
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Saddle key
Feather key
Woodruff key
Sunk key
Question Number: 78 Question Id: 5799652507 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0
Hatching lines are drawn at an angle of to the axis or to the main outline of sections.
Options: 90 ⁰
60 ⁰
45 ⁰
30 ⁰
Question Number: 79 Question Id: 5799652508 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 The efficiency of a power screw is maximum when the lead angle is(where φ is friction angle)
Options:
$\pi/2 - \varphi/2$
$\pi/2 - \phi$
$\pi/4 - \phi/4$
$\pi/4 - \phi/2$
Question Number : 80 Question Id : 5799652509 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct : 1 Wrong : 0
The pistons are usually given coating such as tin plating in order to
Options : Reduce weight
Reduce friction
Reduce possibility of scoring
ncrease lubrication effect
Question Number: 81 Question Id: 5799652510 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0
Surface endurance limit of gear material is dependent upon its
Options : Brinnel Hardness number
Elastic Strength
Toughness
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Yield Strength

Question Number: 82 Question Id: 5799652511 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

A decomposition method in which the cells which are used to model an object need not have the same shape and size is

Options:

Octree model

Part programming

Voxel based model

Cell decomposition

Question Number: 83 Question Id: 5799652512 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Which of the following is not a CAPP approach

Options:

Variant approach

Generative approach

Hybrid approach

Expert system approach

Question Number: 84 Question Id: 5799652513 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Backlash is

Sum of the clearances of pinion and gear teeth

The amount by which the width of a tooth space exceeds the thickness of

meshing tooth on pitch circle

Difference between dedendum and addendum of gear tooth

Difference between the pitch circles of meshing gears

Question Number: 85 Question Id: 5799652514 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Internal gears can be manufactured by

Options:

Shaping with rack cutter

Shaping with pinion cutter

milling

Hobbing

Question Number: 86 Question Id: 5799652515 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

angie Line Quesuon Opuon : No Opuon Orientation : vertical

Correct: 1 Wrong: 0 https://www.freshersnow.com/previous-year-question-papers/

What causes transform	mation of deformed martensite into austenite phase?
Options:	
Heating	
Cooling	
both cooling and heat	ting
partial cooling	
	n Id: 5799652516 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes To Option Orientation: Vertical
Which type of materia metals?	ils are used as bridges between human tissues and
Options : Polymeric biomaterial	s
Ceramic biomaterials	
Metallic biomaterials	
Polymarised plastic m	aterials
Single Line Question Option : N Correct : 1 Wrong : 0	Id: 5799652517 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes to Option Orientation: Vertical
Options:	
0.74	
0.68	
0.52	
0.94	
Question Number: 89 Questior Single Line Question Option: N Correct: 1 Wrong: 0	n Id: 5799652518 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes To Option Orientation: Vertical
Which among the follo	owing is the characteristics of polymers?
Options:	
High tensile strength	
High coefficient of fric	tion
Low density	
Higher viscosity	
Question Number: 90 Question Single Line Question Option: N Correct: 1 Wrong: 0	n Id: 5799652519 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes To Option Orientation: Vertical
17/08/1-1-18/ TELL TRUBE (82)	ould not possess the characteristic of high
Options: coefficient of friction	
hardness	
melting point	https://www.freshersnow.com/previous-year-question-papers/

thermal conductivity

Question Number : 91 Question Id : 5799652520 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

In which of the following methods, surface of a steel component becomes hard due to phase transformation austenite to Martensite?

Options:

Carbonitriding

Flame hardening

Nitriding

Ionisation

Question Number : 92 Question Id : 5799652521 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

In Muntz metal, if 1% of tin is added it forms _____

Options:

admiralty brass

naval brass

Bronze

Silver

Question Number: 93 Question Id: 5799652522 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

According to Indian standard specifications, SG 400/15 means

Options:

Spheroidal graphite cast iron with B.H.N. 400 and minimum tensile strength 15 MPa

Spheroidal graphite cast iron with minimum tensile strength 400 MPa and 15 % elongation

Spheroidal graphite cast iron with minimum compressive strength 400 MPa and 15 % reduction in area

Spherioidal graphite caston with maximum tensile strength 400 MPa with 15 % elongation.

Question Number: 94 Question Id: 5799652523 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

A fit on a hole shaft system in specified as H7-s6. The type of fit is

Options:

Clearance fit

Running fit

Transition fit

Interference fit

Question Number : 95 Question Id : 5799652524 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct : 1 Wrong : 0
The crystal structure of Austenite is
Options: Body centered tetragonal
Hexagonal closed packed
Face centred cubic
Body Centered Cubic
Question Number: 96 Question Id: 5799652525 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0
An allotropic material has
Options : Atoms distributed in random patterns
Atoms distributed in fixed pattern
Different crystal structure at different temperatures
fixed structure at all temperatures
Question Number : 97 Question Id : 5799652526 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct : 1 Wrong : 0
If the steel aat room temperature is magnetic, the presence of which constituent can be ruled out
Options : Austenite
Ferrite
Cementite
Pearlite
Question Number: 98 Question Id: 5799652527 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0
In a, the molten metal is poured and allowed to solidify while the mould is revolving.
Options: Die casting method
Slush casting method
Permanent mould casting method
Centrifugal casting method
Question Number : 99 Question Id : 5799652528 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct : 1 Wrong : 0
Shift is a casting defect which https://www.freshersnow.com/previous-year-question-papers/

Options:

Results in a mismatching of the top and bottom parts of a casting

Results in general enlargement of a casting

Occurs near the ingrates as rough lumps on the surface of a casting

Occurs as sand patches on the upper surface of a casting.

Question Number: 100 Question Id: 5799652529 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The lead screw of a lath with nut forms a

Options:

sliding pair

rolling pair

screw pair

turning pair

Question Number: 101 Question Id: 5799652530 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The welding process by Metal Inert-Gas (MIG) welding is

Options:

slower than the welding process by Tungsten Inert-Gas (TIG) welding

faster than the welding process by Tungsten Inert-Gas (TIG) welding

at same speed as the welding process by Tungsten Inert-Gas (TIG) welding

at unpredictable speed

Question Number: 102 Question Id: 5799652531 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In metal cutting operation, maximum heat (i.e. 80-85%) is generated in

Options:

the shear zone

the chip-tool interface zone

the tool-work interface zone

On the tool surface

Question Number: 103 Question Id: 5799652532 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In which process the material is removed due to the action of abrasive grains?

Electro-Chemical Grinding (ECG)

Ultrasonic Machining (USM)

Laser Beam Machining (LBM)

Electrical Discharge Machining (EDM)
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Question Number: 104 Question Id: 5799652533 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

On increasing the value of rake angle, the strength of tool

Options:

increases

decreases

remains constant

is unpredictable

Question Number: 105 Question Id: 5799652534 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The productivity of honing operation is

Options:

less than the productivity of lapping operation

more than the productivity of lapping operation

equal to the productivity of lapping operation for the same work piece

unpredictable

Question Number: 106 Question Id: 5799652535 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In hole basis system, basic size is equal to

Options:

maximum hole size

Lower deviation is zero

upper deviation is zero

minimum hole size

Question Number: 107 Question Id: 5799652536 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

A non consumable electrode is used in

Options:

Gas welding

DC Arc welding

AC Arc welding

Argon arc welding

Question Number: 108 Question Id: 5799652537 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option : No Option Orientation : Vertical

Correct: 1 Wrong: 0

Which of the following laser source can give the highest power density?

Options:

Plasma Arc

Electron beam

Laser continuous

laser pulsed

Question Number: 109 Question Id: 5799652538 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The bonding of a rubber sheet with a metal is done by

Options:

Welding

High frequency die electric heating

Induction welding

Adhesive bonding

Question Number: 110 Question Id: 5799652539 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Tungston carbide tipped drill bits are used for

Options:

slow drilling

smooth surface

drilling without coolant

drilling on glass

Question Number: 111 Question Id: 5799652540 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The following hardening process is generally free from scale formation.

Options:

flame hardening

cyaniding

nitriding

induction hardening

Question Number: 112 Question Id: 5799652541 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In metal cutting use of low feed and high cutting speed is desired when the

objective is

Options:

High metal removal rate

Dry Machining

Use of soft cutting tool

Surface finish

Question Number: 113 Question Id: 5799652542 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

A Zinc diffusion process is called

Options:

Galvanizing

Parkerizing

Shearadizing

Anodizing

Question Number: 114 Question Id: 5799652543 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The factor responsible for the formation of discontinuous chips is

Options:

Low cutting speed and small rake

High cutting speed and small rake angle

High cutting speed and large rake angle

Low cutting speed and large rake angle

Question Number: 115 Question Id: 5799652544 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Dye penetration inspection is generally used to locate

Options:

Temporary defects

Surface breaking defects

Artificial defects

Core defects

Question Number: 116 Question Id: 5799652545 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Friction at the tool chip interface can be reduced by

Options:

Decreasing the rake angle

Increasing the depth of cut

Decreasing the cutting speed

Increasing the cutting speed

 $Question\ Number: 117\ Question\ Id: 5799652546\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct: 1 Wrong: 0

Which among the following tool bits are made by powder metallurgy process

Options:

Carbon steel tool bits

Tungsten carbide tool bits Stellite tool bits HSS tool bits Question Number: 118 Question Id: 5799652547 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 While machining copper alloys by Electro chemical Machining the electrolyte used is **Ontions:** Common salt Sodium sulphate Sodium Chlorate Sodium Nitrate Question Number: 119 Question Id: 5799652548 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 Brazing changes to soldering at which temperature **Options:** 230 °C 325 °C 450 °C 575 °C Question Number: 120 Question Id: 5799652549 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 Metal Forming process used for making shallow and also for straightening parts is **Options:** Peen forming Magnetic Pulse forming Stamping Stretch forming Question Number: 121 Question Id: 5799652550 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct: 1 Wrong: 0 The machine members which are used to gradually transmit motion of a driving member to another member at rest, without shock, are termed as **Options:** bearings couplings clutches cotters https://www.freshersnow.com/previous-year-question-papers/

Question Number: 122 Question Id: 5799652551 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Group technology brings together and organizes

Options:

Automation and tool production

Documentation and analysis

Common parts, problems and tasks

Parts and simulation analysis

Question Number: 123 Question Id: 5799652552 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Machining of complex shapes on CNC machines requires

Options:

Simultaneous control of x, y and z axes

Simultaneous control of x and y axes

Independent control of x, y and z axes

Independent control of x, y and z axes

Question Number: 124 Question Id: 5799652553 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The interpolator in a CNC machine controls

Options:

Spindle speed

Coolant flow

Feed rate

Tool change

Question Number: 125 Question Id: 5799652554 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Flexible manufacturing allows for

Options:

Tool design and tool production

Quick and inexpensive product changes

Automated design

Factory management

Question Number: 126 Question Id: 5799652555 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

NC contouring is an example of

Options:

Continuous path positioning

Point to point positioning

Absolute positioning

Incremental positioning

Question Number: 127 Question Id: 5799652556 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In Concurrent Engineering, design and manufacturing are

Options:

Sequentially considered

Separately considered

Simultaneously considered

Independently considered

Question Number: 128 Question Id: 5799652557 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Gantt chart provides information about the

Options:

Material Handling

Utilization of manpower

Production schedule

Working of machine

Question Number: 129 Question Id: 5799652558 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In time study the rating factor is applied to determine

Options:

Standard time of job

Merit rating of the work

Normal time of working

Fixation of incentive rate

Question Number: 130 Question Id: 5799652559 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The determination of standard time in a complex job system is best done through a

Options:

Group timing technique

Analysis of micro motion

Stop watch time and study

Analysis standard data system

Question Number: 131 Question Id: 5799652560 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Speed and direction of workers movements can be better recorded by which one

of the following

Options:

Flow chart

Chronocycle graph

Chronometer

String Diagram

Question Number: 132 Question Id: 5799652561 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The most important objective behind plant layout is

Options:

Overall simplification, safety of integration

Economy in space

Maximum travel time in plant

To provide conveniently located shops

Question Number: 133 Question Id: 5799652562 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Quality improvement planning is related to which category of cost?

Options:

Cost of failure

Cost of appraisal

Cost of prevention

Cost of loss

Question Number: 134 Question Id: 5799652563 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Line balancing problem is concerned with

Options:

Process layout

Product layout

Fixed position layout

cellular manufacturing

Question Number: 135 Question Id: 5799652564 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

A master production schedule contains information about

Options:

Quantities and required delivery data of all final products

Quantities and required delivery data of all sub assemblies

Inventory on hand for each sub assembly

Inventory on hand for each final project

Question Number: 136 Question Id: 5799652565 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Values for the probabilistic inputs to a simulation are

Options:

controlled by decision maker

calculated by fixed mathematical formula

randomly generated based on historical information

selected by the decision maker

Question Number: 137 Question Id: 5799652566 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

A simulation model uses the mathematical expressions and logical relationships

of the

Options:

Estimated inferences

Performance measures

Computer model

Real system

Question Number: 138 Question Id: 5799652567 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The acronym DMAIC stands for

Options:

Develop, make, analyze, improve, control

Define, measure, analyze, implement, control

Define, make, analyze, import, control

Derive, measure, analyze, implement, create

Question Number: 139 Question Id: 5799652568 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Productivity of a production system is analogous to the

Options:

output of a machine

input to a machine

efficiency of a machine

efficiency of labour

Question Number: 140 Question Id: 5799652569 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Production of large turbo generators is an example for

Options:

job order production

batch order production

continuous production

selective production

Question Number: 141 Question Id: 5799652570 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Combining together of two business parties is termed as

Options:

joint stock company

amalgamation

public limited company

private limited company

Question Number: 142 Question Id: 5799652571 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Reheating in a gas turbine

Options:

increases the compressor work

increases the turbine work

decreases the thermal efficiency

increases the thermal efficiency

Question Number: 143 Question Id: 5799652572 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

The process of super-charging in I.C. engines is meant for

Options:

raising the exhaust pressure

increasing the density of intake air

increasing quality of fuel going into the cylinder

decreasing the density of air

Question Number: 144 Question Id: 5799652573 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In perpetual inventory control, the material is checked as it reaches its____ value

Options:

maximum

average

alarming

minimum

 $Question\ Number: 145\ Question\ Id: 5799652574\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct: 1 Wrong: 0

Free trade zone means

Options:

two countries without tariff

two manufacturers without tax liability

manufacturer and consumer

manufacturer and wholesaler

Question Number: 146 Question Id: 5799652575 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

For resistance welding, the

Options:

voltage is low and current is high

voltage is high and current is low

both voltage and current are low

both voltage and current are high

Question Number: 147 Question Id: 5799652576 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

Which of the following tests can be used to detect surface cracks in the welding

of non-magnetic alloys?

Options:

Gamma ray test

X-ray test

Flourescent test

Magnaflux test

Question Number: 148 Question Id: 5799652577 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0

In petrol engines, advancing the spark timing will

Options:

Decrease

Not effect

Increase the knocking tendency

Unpredictable

Question Number: 149 Question Id: 5799652578 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes

Single Line Question Option: No Option Orientation: Vertical

Correct: 1 Wrong: 0 Ignition lag is

Options:

Time before actual fuel injection and the pump plunger starts to pump fuel

Time corresponding to actual ignition

Time corresponding to actual injection and TDC

Time taken by fuel after injection (before TDC) to reach up to auto ignition temperature

 $Question\ Number: 150\ Question\ Id: 5799652579\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct: 1 Wrong: 0

In C.I. Engine, the function air swirl is

Options:

Haphazard motion of air in the cylinder

rotary motion of the air for proper distribution of fuel in the cylinder

radial motion of air in the cylinder

Mixing of air and fuel.