EP END TERM EXAM MARCH 2021

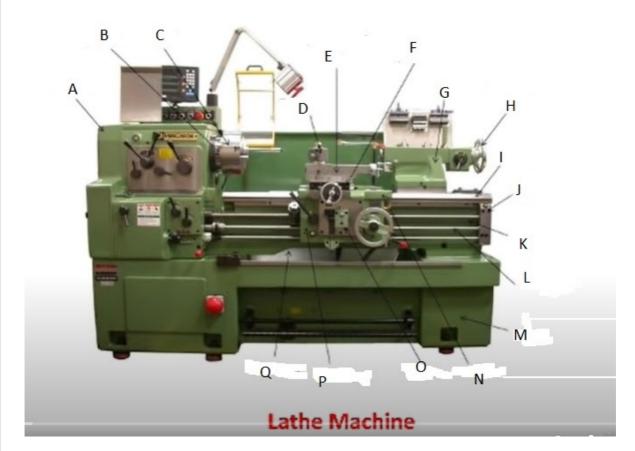
* Required

Email address *
Your email
Try square is a
marking tool
marking as well as measuring tool
measuring tool
cutting tool
Which is not a part of Micrometer?
O Thimble
Ratchet stop
Caliper
C Lock nut

Which of the following belongs to category of fusion welding?		
gas welding		
electrical resistance welding		
thermit welding with pressure		
Forge welding		
hammer is used for striking as well as for pulling nails from the wood.		
Cross Peen Hammer		
Mallet		
All of the above		
Claw Hammer		
A 40 mm diameter rod is to be turned on a lathe at a cutting speed of 30 m/min. The required spindle speed should be approximately		
180 rpm		
120 rpm		
240 rpm		
O 340 rpm		

One complete revolution of thimble represents a distance of
O.01 mm
O.1 mm
O.05 mm
O.5 mm
Following hammer is made up of wood
Claw Hammer
All of the these
Mallet
Cross Peen Hammer

Identify the correct position of the Tool Post?



- F
- (E
- B
- O D

The space between the sand bed and Tuyers is called as ______.

- Reducing zone
- O Pre heating zone
- O Well
- Stack zone

Hardness of a material represents its resistance to machining		
O local penetration		
any of the above		
wear		
scratching		
Which type of jaw is called as self centered chuck		
Both 3 jaw and 4 jaw are self centered		
O 3 jaw		
None of these		
O 4 jaw		
Hacksaw blade cuts the material		
cutting depends upon the direction of force		
during forward stroke		
during return stroke		
O during forward as well as return stroke		

All of the following statements about TIG arc welding and MIG arc welding are correct except

both use a permanent non consumable electrode

TIG is not as fast as MIG but making very smooth weld of high quality

both are suitable for welding metal like non-ferrous alloy and Aluminium

on flux in is required

Identify the correct place of the Carriage?



O P

() G

(F

Taps are used for
Cutting accurate square holes
Cutting Internal threads in jobs
Cutting External Threads in jobs
Finishing the round holes
Section
Your answer
Identify the type of joint shown below;
O Bridle Joint
O Butt Joint
Mitre Joint
O Dowel Joint

is used to file corners of a job.
half round file
o square file
oround file
needle file
is used for removing a broken tap.
Tap Extractor
Reamer
Tap wrench
C Lock nut
Name the tool used to make a passage for pouring molten metal in mold through gating system?
Sprue Pin
Mallet
Trowals
Swab

The chisel used to finish curved holes;
O Firmer chisel
Mortise chisel
Gauge chisel
All of the above
The purpose of a gate is to
O Delivers molten metal from pouring basin to gate
O Delivers molten metal into the mould cavity
Act as a reservoir for the molten metal
Feed the molten metal to the casting in order to compensate for the shrinkage
For cutting along the grains saws are used.
Cross-Cut Saw
O Dovetail Saw
O Compass Saw
O Rip Saw

Which may be the correct Sequence of operation on the lathe machine (I) Boring (II) Drilling (III) Open the jaws (IV) Tighten the chuck

III-IV-II-I

I-II-III-IV

III-IV-I-II

I-II-IV-III

Identify the type of seasoning;



Chemical seasoning

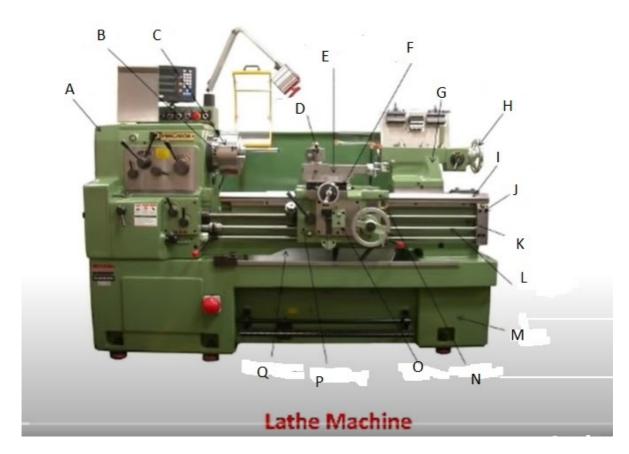
Kiln seasoning

Electrical seasoning

Air seasoning

The following saw consists of two handles
Cross cut saw
Tenon saw
Coping saw
Rip saw
Riddle is used for
Smoothing and cleaning out depressions in the mould
Moistening the sand around the edge before removing pattern
Cleaning the moulding sand
Reinforcement of sand in the top part of moulding box

Identify the correct position of the Tail Stock?



- O F
- \bigcirc G
- A
- O P

Forming a conical shape in the end of a hole is said to be:

- Bracing
- Drilling
- Ounter sinking
- Boring

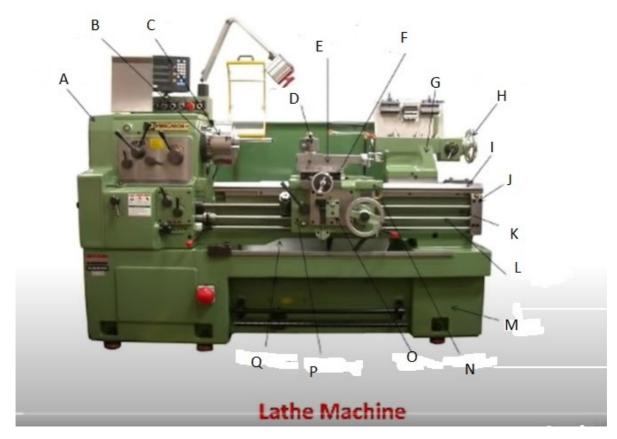
Machining operation in which work is fed past a rotating tool with multiple cutting edges		
Threading		
Milling		
Facing		
Turning		
Flatness of surface is checked by		
O Bevel Gauge		
Surface Plate		
Vernier Height Gauge		
Try Square		
File removes the metal during		
None of these		
Return Stroke		
Forward as well as Return Stroke		
Forward Stroke		

The process in which conical shape is produced on a work piece		
Turning		
☐ Taper Turning		
Forming		
Facing		
Odd one out of the following		
C Lead Screw		
Reamer		
Chip pan		
Feed Rod		
Flux is used in soldering to		
O lower the melting temperature of solder		
Fillup gap in the joint		
wash away surplus order		
O Dissolve oxide from on the workpiece		

Identify the correct Statement
Boring as well as turning is performed on the inside diameter of an existing hole
O Boring is performed on the outside diameter of a cylinder hole and Turning is performed on the inside diameter of an existing hole
Boring as well as turning is performed on the outside diameter of an existing cylinder
O Boring is performed on the inside diameter of an existing hole and Turning is performed on the outside diameter of an existing cylinder
Odd one out of the following
Boring
Slotting
○ Facing
O Turning
Part geometry determined by the Shape of the cutting tool is called as
○ Facing
Knurling
Forming
Tapping

Whi	ich of the following is not used as a marking tool?
0	Prick Punch
0	Combination Set
0	Angle Plate
0	Divider
In la	the, the tail stock and carriage are guided on
0	Same guideways
0	Different guideways
0	None of the above
0	Any of the above
O O	de material in wooden jack plane is High carbon steel High speed steel Mild steel
0	None of the above
Cen	ntral part of tree is called as
0	Bark
_	Pith or medulla
0	Titli of medalia
0	Heart wood

Identify the correct letter for the word you can fill in following blank: There can be two types of _____ i.e. 3 jaw and 4 jaw.



- \bigcirc C
- (L
- (E
- O D

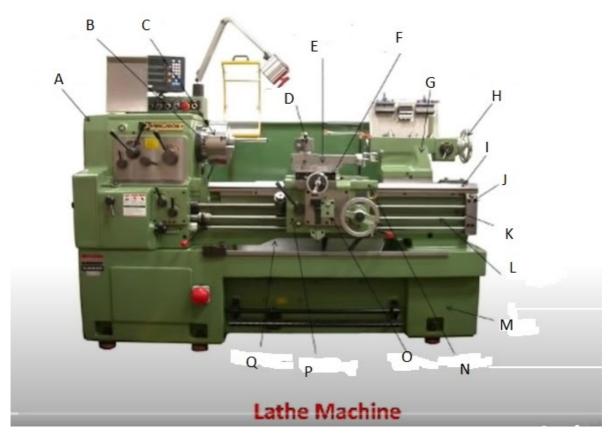
Which part of the lathe, serves as the housing for driving pulleys and back gear

- Tailstock
- O Tool-post
- Carriage
- Headstock

A file with 20 teeth in 25 mm (1 inch) is called
Second cut file
O Dead smooth file
Rough file
O Bastard file
The cleaning of a file is done by
O Dipping in dilute-alcohol
Using a file card
Rubbing on wood
O Dipping in dilute alkali
Swab is used for
Swab is used for Cleaning the moulding sand
Cleaning the moulding sand
Cleaning the moulding sand Reinforcement of sand in the top part of the moulding box
 Cleaning the moulding sand Reinforcement of sand in the top part of the moulding box Smoothing and cleaning out depressions in the mould
 Cleaning the moulding sand Reinforcement of sand in the top part of the moulding box Smoothing and cleaning out depressions in the mould
 Cleaning the moulding sand Reinforcement of sand in the top part of the moulding box Smoothing and cleaning out depressions in the mould Moistening the sand around the edge before removing pattern
 Cleaning the moulding sand Reinforcement of sand in the top part of the moulding box Smoothing and cleaning out depressions in the mould Moistening the sand around the edge before removing pattern Which is not true in the context of welding?
 Cleaning the moulding sand Reinforcement of sand in the top part of the moulding box Smoothing and cleaning out depressions in the mould Moistening the sand around the edge before removing pattern Which is not true in the context of welding? power source may be AC or DC

1

Match the correct option regarding Lathe Machine: (a) A-Head Stock, C-Chuck, I-Guide Ways, Q-Chip Pan (b) Q-Chip Pan, N-Saddle, M-Leg, H- Spindle (c) B-Spindle, J-Bed, L-Feed Rod, G-Tool Post (d) C-Chuck, J-Bed, E-Compound Rest, N-Chuck



- \bigcirc d
- \bigcap c
- \bigcap a
- \bigcirc b

Cutting edge of chisel should be

- Brittle
- Hardened
- Case hardened
- Ductile

Identify the tool used in foundry shop Sprue pin Draw Spike Slick Vent rod

Unit of lathe which houses is the lathe spindle and control Levers for Speed selection is called cross slide feedbox Headstock carriage

welding zone in TIG arc welding is shielded by an atmosphere of
Hydrogen
Helium
Carbon dioxide
Oxygen gas
The outer surface of the tree which acts as a cover for the inner portion is called
O Bark
O Sap wood
Heart wood
Cambium layer
Which wood is difficult to machine?
Seasoned wood
Kiln dried wood
Old and used wood
Freshly felled wood
Select the odd one out in context with the cupola.
○ Metal
Flux
Calcium Carbonate
Coke

Tool used to check whether the sand bed or molding box is horizontal or not?
○ Trovel
Mallet
Spirit Level
O Smothers
Empty portion of the Cupola use for hot gases to escape out to atmosphere is called as Well Stack Combustion Zone Slag hole
All of the following statements are correct except
carburizing flame is obtained when excess of acetylene is applied
most of the oxy acetylene welding is done with natural flame obtained by applying equal volume of Oxygen and acetylene
oxygen cylinder is usually painted with black colour
Acetylene gas is stored in cylinders in liquid form

	The best position to hold the job in the vice when filing is
	Arm level
	C Eye Level
	C Elbow level
	Shoulder level
	In drilling of no cutting oil is used.
	Aluminium
	Copper
	Cast Iron
	High Carbon Steel
	The files for use in fitting shop are made from
	Chrome steel
	mild steel
	high carbon steel
	Cast iron
	The dowels are
	None of these
	Wooden nails
	Wire nails
	O Box nails
E	

Lathe	e Machine is used to machine which type of component
0	Cylindrical symmetrical about y-axis
0	Cylindrical symmetrical about x-axis
O F	Prismatic
O A	Any type of shape
A had	cksaw blade is specified by its
Ο L	Length
O 1	Number of teeth
O 1	Material
O V	Width
Т	
remp	perature of the combustion zone is between degree Celsius
	perature of the combustion zone is between degree Celsius
O 9	
O 9	930-1470
O 9	930-1470 1890- 2100
O 9 O 1 O 1	930-1470 1890- 2100 1230- 1500
O 9 O 1 O 1 The p	930-1470 1890- 2100 1230- 1500 1540-1870
O 9 O 1 O 1 The p	930-1470 1890- 2100 1230- 1500 1540-1870 Dercentage of carbon in cast iron alloy varies between
O 9 O 1 O 1 The p	930-1470 1890- 2100 1230- 1500 1540-1870 Dercentage of carbon in cast iron alloy varies between 0.5 to 1.0%
O 9 O 1 O 1 The p	930-1470 1890- 2100 1230- 1500 1540-1870 Dercentage of carbon in cast iron alloy varies between 0.5 to 1.0% 1.0 to 1.5%

In lathe, form tools are used to produce
Threads
Cylindrical surfaces
The surfaces which are neither cylindrical nor tapered
Tapered surfaces
Roll Number *
Your answer
The Lathe carriage serves the following purpose of the tool
Supporting
Guiding
All of the above
○ Feeding
The product from blast furnace is called
Cast iron
○ steel
o pig iron
wrought iron

	In dial indicator, which of the following mechanism is used for converting the linear motion of plunger into rotary motion of pointer?
	Screw Thread Mechanism
	O Pneumatic Mechanism
	Rack and Pinion Mechanism
	Quick Return Mechanism
	Which one of the following is not a boring tool?
	Gimlet
	C. Clamp
	O Bradawl
	O Auger
	The place where one can hold the drill (Tool) in lathe machine during drilling operation.
	Tail Stock
	Chuck
	Either in Chuck or Tool Post
	O Tool Post
	Identify the incorrect statement about wrought iron
	is highly resistant to corrosion and rusting
	is difficult to forge
!	is characterised by percentage of carbon less than 0.2%

which of the following is a lathe accessory?
Compound rest
O tool post
O Headstock
O lathe carrier or dogs
Lathe bed is generally made of
Cast iron
Cast Steel
mild steel
wrought iron
Cutting tool will remainin the lathe
Cutting tool will remainin the lathe Stationary
Stationary
StationaryNone of these
StationaryNone of theseEither stationary or can be moving
StationaryNone of theseEither stationary or can be moving
 Stationary None of these Either stationary or can be moving Moving
 Stationary None of these Either stationary or can be moving Moving By which instrument, you can mark and draw the vertical lines on the job piece?
 Stationary None of these Either stationary or can be moving Moving By which instrument, you can mark and draw the vertical lines on the job piece? centre punch
 Stationary None of these Either stationary or can be moving Moving By which instrument, you can mark and draw the vertical lines on the job piece? centre punch odd leg calliper

Which type of jaw can not be used for eccentric turning
O 3 jaw
O Both 3 jaw and 4 jaw
O 4 jaw
O None of these

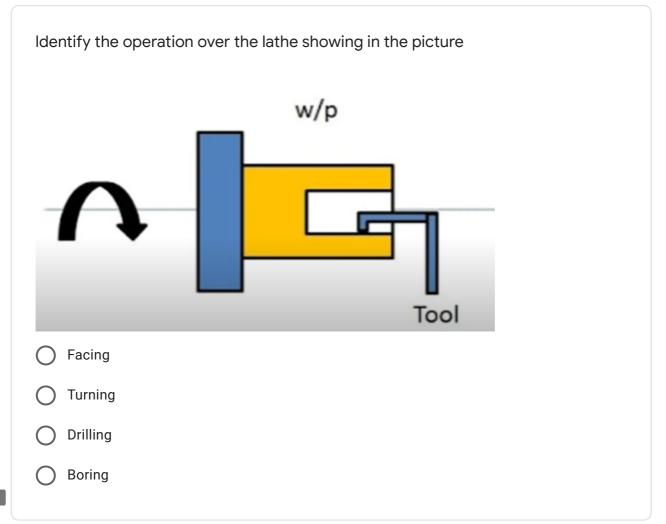
The angle of centre punch is generally

90 degrees

more than 90 degrees

less than 90 degrees

Depends upon hardness of workpiece surface, which is to be marked



Electrode used in welding are coated
add alloying elements
this coating is not expected to provide protective atmosphere to weld
stabilize the arc
prevent electrode from contamination
Which of the following operation performed on lathe machine?
material removing
metal joining
All of these
onone of these
Following type of file is used in wood work
Half round file
Bastard file
All of the above
Rasp file

Name the tool used to pierce series of small holes in the molding sand in the cope portion.
Swab
○ Slicks
O Vent rod
Sprue Pin
In lathe, Work piece is to be hold in
O Carriage
Chuck
Tail Stock
O Head Stock
Which of the following has one movable jaw and one fixed jaw?
O Bench vice
O None of these
Mallet
O Hammer

Which type of jaw is better for heavier job
O 4 jaw
None of these
Both 3 jaw and 4 jaw
O 3 jaw
The cupola is used to make
Cast iron
wrought iron
Steel.
o pig iron
Which of the following welding techniques uses non-consumable electrodes?
Which of the following welding techniques uses non-consumable electrodes? MIG welding
MIG welding
MIG welding TIG welding
MIG weldingTIG weldingThermal welding
MIG weldingTIG weldingThermal welding
 MIG welding TIG welding Thermal welding submerged arc welding
 MIG welding TIG welding Thermal welding submerged arc welding Clearance between matting part is measured by
 MIG welding Thermal welding submerged arc welding Clearance between matting part is measured by Dial Gauge
 MIG welding Thermal welding submerged arc welding Clearance between matting part is measured by Dial Gauge Feeler Gauge

Electronic components are usually joined by
Brazing
○ Sintering
Soldering
oresistance welding
Name the tool used for smoothing or slicking the surfaces of molds
Slicks
Gaggers
○ Trovel
Swab
During turning operations-on a lathe, the square or irregular shaped workpieces are mounted in
of four jaw self-centering chuck
independent chuck
Collet chuck
three jaw chuck

previously drilled and reamed parts can be turned between centers by mounting parts on

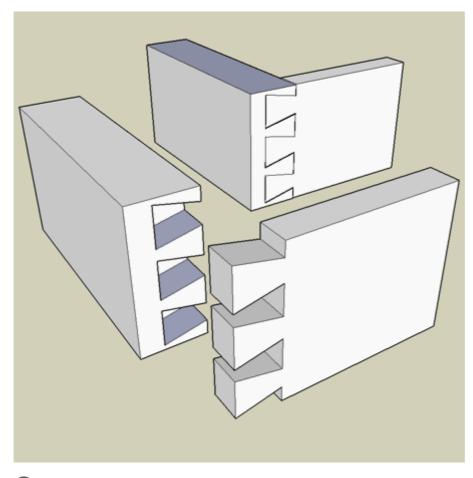
Faceplate

Mandrel

independent chuck

self cenetring chuck

Which name is appropriate for the joint shown in picture



Tee Joint

Mitre Joint

Mortise and tenon joints

O Dovetail Joint

18-4-1 high speed steel contains	
18 % nickel	
1% cobalt	
None of the above	
O 4 % chromium	
The main constituent of soldering alloy are	
Tin, Copper and lead	
Tin , lead and magnesium	
Tin and lead	
Tin and copper	
When a pattern is made in three parts, the top part, is known as a	
When a pattern is made in three parts, the top part, is known as a None of these	
None of these	
None of theseDrag	
None of theseDragCheek	
None of theseDragCheek	
None of theseDragCheekCope	
 None of these Drag Cheek Cope Tool rest in lathe can also be known as	
 None of these Drag Cheek Cope Tool rest in lathe can also be known as Saddle 	
 None of these Drag Cheek Cope Tool rest in lathe can also be known as Saddle Tool post 	

When a pattern is made in three parts, the is known as a drag	
Middle part	
None of these	
O Top part	
O Bottom part	
Which is the most accurate of the following chucks?	
Collet chuck	
three jaw chuck	
of four jaw chuck	
independent chuck	
Identify the correct statement	
Identify the correct statement Both 3 jaw and 4 jaw are having same gripping power	
Both 3 jaw and 4 jaw are having same gripping power	
 Both 3 jaw and 4 jaw are having same gripping power None of these is correct 	
 Both 3 jaw and 4 jaw are having same gripping power None of these is correct 3 jaw is having more gripping power over the 4 jaw chuck 	
 Both 3 jaw and 4 jaw are having same gripping power None of these is correct 3 jaw is having more gripping power over the 4 jaw chuck 	
 Both 3 jaw and 4 jaw are having same gripping power None of these is correct 3 jaw is having more gripping power over the 4 jaw chuck 4 jaw is having more gripping power over the 3 jaw chuck 	
 Both 3 jaw and 4 jaw are having same gripping power None of these is correct 3 jaw is having more gripping power over the 4 jaw chuck 4 jaw is having more gripping power over the 3 jaw chuck By turning operation we can	
 Both 3 jaw and 4 jaw are having same gripping power None of these is correct 3 jaw is having more gripping power over the 4 jaw chuck 4 jaw is having more gripping power over the 3 jaw chuck By turning operation we can All of these 	
 Both 3 jaw and 4 jaw are having same gripping power None of these is correct 3 jaw is having more gripping power over the 4 jaw chuck 4 jaw is having more gripping power over the 3 jaw chuck By turning operation we can All of these reduce the length 	

spot the odd one out
Chucks
Cross slide
O tool holder
Following types of machines are used in carpentry shop
○ Grinder
Cathe machine
All of the these
All of the theseThickness planning Machine

Name the tool shown in diagram



- Adjustable Frame Hacksaw
- Tenon Saw
- Ocoping Saw
- Panel Saw

surface plate's top is made of

- Mild steel
- Cast iron
- Aluminium
- Stainless Steel

Face Plate in a lathe is attached with the
O Tool Post
Cross Slide
C Lead Screw
○ Spindle
During taper turning, the compound rest is swivelled through on angle given by
tanø= (D-d)/I
$\bigcirc \tan 2\emptyset = (D-d)/2I$
$\bigcirc tan\emptyset = (D-d)/2I$
Generally is used to scribe straight lines at right angles. Surface Plate
Surface Plate
Surface PlateTri Square
Surface PlateTri SquareRadius Gauge
Surface PlateTri SquareRadius GaugeBevel Protractor
 Surface Plate Tri Square Radius Gauge Bevel Protractor Weld spatter is
 Surface Plate Tri Square Radius Gauge Bevel Protractor Weld spatter is Filter metal used in brazing

on a lathe machine ,a mandrel is used
of for checking the accuracy of the finished job
holding very long and heavy job
as a taper turning attachment
holding and rotating a hollow piece of work
The process of removing moisture from freshly cut down trees is known as:
O Drying
Seasoning
O De-moistening
None of the these
in DC Welding district polarity(electrode negative) results in
in DC Welding district polarity(electrode negative) results in smaller weld pod
smaller weld pod
smaller weld podLower penetration
smaller weld podLower penetrationlower deposition rate
smaller weld podLower penetrationlower deposition rate
 smaller weld pod Lower penetration lower deposition rate Less heating of workpiece
 smaller weld pod Lower penetration lower deposition rate Less heating of workpiece Following is also known as back saw
 smaller weld pod Lower penetration lower deposition rate Less heating of workpiece Following is also known as back saw Cross cut saw
 smaller weld pod Lower penetration lower deposition rate Less heating of workpiece Following is also known as back saw Cross cut saw Rip saw

Least count of vernier caliper having vernier scale length 49 mm and 50 divisions on vernier scale will be
O.05 mm
O.1 mm
O.01 mm
O.02 mm
Angle plate slots are made for
Accommodating the bolts
Weight reduction.
Increasing the strength of angle plate
The Rusting of stainless steel gets prevented to a considerable extent by alloying it with vanadium manganese cobalt chromium
the process of bevelling the extreme end of a workpiece is called
O Sopt facing
Chamfering
Buffing

By facing operation we can
reduce the diameter
Cut the slots
reduce the length
one of these
In a taper turning exercise on lathe, the lowing details are given on the component drawing: amount of-taper= 1/20. difference in the diameters of big and small end of the tapered portion = 8 mm What is then the length of tapered portion? 160 mm 80 mm 40 mm
Scriber is a
Measuring Tool
Sharpening Tool
Marking Tool
Cutting Tool

saw is used for cutting quick or sharp curves either internal or external.
Coping saw
All of the above
Tenon saw
Rip saw
Which of the following tool is used to make the surface plain?
metal jack plane
onone of these
try square
o mallet
Following type of tool is used in carpentry shop for making holes in wooden piece
Hand drill
Gimlet drill
Ratchet drill
All of the these

The type of tool used on a lathe machine is
two-point cutting tool
single-point cutting tool
three-point cutting tool
multi-point cutting tool
Compale in a second sec
Cupola is a device.
Moulding
○ Smoothing
Boiling
which is closest to purest form of iron?
Cast iron
mild steel
grey iron
wrought iron
Identify the hardest metal
○ tungsten
diamond
iron
O platinum

	Knurling is the process of
	bevelling the extreme end of a work piece
	taper turning by setting the compound rest at an angle
	embossing a diamond shaped pattern on the job
	finishing a phone with has already been drilled
	Chaplets are :-
	Core binders
	Mould seats to support core
	Core supporters
	Core projections
	steady rest is lathe unit that is used for
	supporting the bed
	holding very long and heavy jobs
	performing knurling operation
	external taper turning
	is not a cutting tool.
	○ File
	○ Chisel
	Scraper
	O Plier
!	

The stainless steels owe their corrosion resistance to the presence of
Chromium
Cobalt
manganese
Silicon
The direction of feed in Threading operation is
can be either parallel or perpendicular to axis of rotation
Parallel in the starting and become perpendicular thereafter
Perpendicular to the axis of rotation
Parallel to axis of rotation
is used for a wood work.
Rasp file
Rasp file Pillar file
O Pillar file
Pillar file Mill file
Pillar file Mill file
Pillar fileMill fileDouble cut file
 Pillar file Mill file Double cut file The four jaw self-centering chuck is to be preferred for
 Pillar file Mill file Double cut file The four jaw self-centering chuck is to be preferred for when a large number of components are to be turned and parted off from a bar

The teeth of hacksaw blade are bent
Alternatively towards right and left
O Towards Right
O Towards Left
According to workpiece hardness
The brazing process is carried out in the temperature range(degree Celsius)
180-250
60-150
450-900
250-375
Universal Marking Surface Gauge has less number of degrees of freedom as compared to Surface Gauge.
True
O False
which of the following welding process uses consumable electrodes?
which of the following welding process uses consumable electrodes? MIG welding
MIG welding
MIG welding TIG welding



What is the purpose of Chamfering on a work piece over the Lathe Machine
O To remove Burr
All the these
To protect the ends of work piece
O To look better
Which of the following is not a holding vice?
Carpentry vice
Mallet
Fitting vice
Tap wrench
Chisels is/are made of
High carbon steel
Cast iron
High Speed steel
Mild Steel
in lathe machine material is removed by
Rotating workpiece against a rotating cutter
feeding a workpiece against a cutter having reciprocate motion
Rotating workpiece against a cutter
feeding the workpiece against a rotating cutter

Strongest form of an angle joint used in cabinet work:
O Halving joint
O Dovetail joint
Mortise and Tenon joint
O Housing joint
The most important parameter that specify a lathe machine is
maximum speed of spindle
Length of the bed
distance between centers
maximum diameter of the job and swing
In a centre lathe, the spindle speed will be lowest during
In a centre lathe, the spindle speed will be lowest during taper turning
taper turning
taper turning parting off
taper turningparting offthread cutting
taper turningparting offthread cutting
taper turningparting offthread cuttingknurling
 taper turning parting off thread cutting knurling Identify the correct statement
 taper turning parting off thread cutting knurling Identify the correct statement 3 jaw is having more centering accuracy over the 4 jaw chuck

Identify the tool used in foundry shop
Lifter
○ Trovel
Showel
Rammer

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