Q)Tool signature consist of elements> 7
Q)Drilling is an example ofcutting> oblique cutting
Q)Machining is a> removal process
Q)Feed rate is expressed in turning operation by> mm/revolution
Q)The rake angle of a cutting tool> controls the chip formation
Q)Cemented carbide tipped tools can machine metal even when their cutting elements get
heated up to the temperature> 1000°C
Q)Discontinuous chips are formed during machining> cast iron
Q)Continuous chips are formed when cutting> ductile materials
Q)Stellite tools can machine metal even when their cutting elements get heated up to the
temperature> 920°C
Q)The last element in the tool signature is> nose radius
Q)A cutting tool can never have its> clearance angle negative
Q)Tool life is most affected by> cutting speed
Q)High carbon steel tools can machine metal even when their cutting elements get heated upto
the temperature> 200°-250°C
Q)Back rake of a turning tool is measured on its> machine transverse plane
Q)Serrated chips also called> nonhomogeneous chips
Q)Temperature and their distribution in the cutting zone determined by using>
thermocouples
Q)Ceramic tools are made from> aluminum oxide
Q)Poor surface finish results due to> coarse feed 3
Q)The binding material used in cemented carbide tool is> cobalt
Q)The rake angle of cutting tool> controls chip formation
Q)Approximate content of tangster in H.S.S outting tool material is> 18%
Q)Friction between chip and tool can be reduced by> increasing sliding velocity
Q)Which of the following tool material has highest cutting speed> carbide
Q)In orthogonal machining operation, the chip thickness and the uncut chip thickness are equal
to 0.45mm. If the tool rake angle is 0° , then shear plane angle is> 45°
Q)In oblique cutting system, the cutting edge of the tool> may or may not clear the width of
the work piece
Q)The magnitude of outting speed for maximum profit rate must be> in between the speed
for minimum cost and maximum production rate
Q)The angle on which the strength of the tool depends is> rake angle
Q)The factor responsible for formation of discontinuous chips> low cutting speed and small
rake angle 🔭
Q)Chips are broken effectively due to following property> strain hardening
Q)The correct sequence of cutting tools in the ascending order of their wear resistance is>
HSS-stellite-carbide-nitride
Q)The angle between the side cutting edge and the end cutting edge is known as> nose radius
Q)Lip angle of a single point tool is of the order of> 60-80°
Q)The mechanism responsible for metal cutting is> shear
Q)The shear angle(ϕ), cutting ratio(r), and rake angle (α) related as> Tan ϕ = r cos α / (1-r sin
α)

Q)Which of the following phases gives good machinability in steels and cast irons?> ferrite
Q/William of the following phases gives good machinability in steels and cast hous:> leffite
Q)A single point cutting tool with 120 rake angle is used to machine a steel work piece. The
depth of cut i.e., uncut chip thickness is 0.81 mm. The chip thickness under orthogonal
machining condition is 1.8 mm. The shear angle is approximately> 26°
Q)Which of the following process uses blunt tool?> spinning
Q)A built up edge is formed while machining> ductile material at low speed
Q)Friction at the tool chip interface can be reduced by> increasing the cutting speed
Q)Which of the following is not used for judging machinability?> machining time and
machining speed
Q)Cutting fluid is not used for machining of> cast iron
Q)If the single point tool signature, the first and middle element indicate (respectively) >> back
cake angle and side relief angle
Q)For improving machinability of stainless steel the element added is normally tellurium
Q)The carbide tool materials are designated through> K,P,M series
Q)The first and second hardest materials currently available are respectively> diamond and
cubic boron nitride(CBN)
Q)In the machining of cast irons, the formation of built up edge(BUE)> improves tool life
Q)The cutting tool materials used when dimensional accuracy and good surface finish are of
prime concern is> diamonds
Q)The lathe bed is made of> cast iron
Q)Arrangement of tools as per the sequence of operation in a capston or turret lathe is known
as> tool layout
Q)For setting up of heavy and irregular shaped work the chuck preferred is
chuck> four jaw chuck
Q)The taper on lathe spindles is > 1.20
Q)In collet the included angle of taper is usually> 30°
Q)The operation of beveling the extreme end of a work piece is known as
WILLIE ODELGIOUS OF DEVENING UIC CAUCING OF G WOLK DICKE IS KNOWN GS
-> chamfering
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carriage Q)A mandrels is used to hold--> Hollow work Q)For short and external taper, the method employed is--> Forming tool Q)The compound rest method of turning topers is employed for--> Steep and short tapers Q)The movement of various slides and stock feeding on screw machines are obtained by the action of --> Cam Q)Under cutting is an operation--> Cutting a groove next to shoulder Q)Chamfering is an essential operation after--> Thread cutting Q)The lead screw of lathe has _____ Threads--> Single start Q)A right hand tool on a lathe cuts most effectively when it travels--> From right to left end of the lathe bed. Q)A left hand tool on a lathe cuts most effectively when it travels .--> From left to right end of the lathe bed. Q)A Lathe with four steps on to the cone pulley and with back gears will have.--> Four Direct and form indirect speeds Q)The lathe guide ways are of--> Any one of the above. Q)For turning small tapers on long work piece the suitable methods--> By setting over the tail stock Q)For turning internal tapers, the suitable method only -> By a taper turning attachment Q)Lathe spindle has got--> External Threads Q)Which of the following operations requires that the outting edge of a tool bit be placed exactly on the work Centre line?--> Facing <__ Q)In a lathe, the carriage and tail stock are guided on--> Different guide way Q)In order to achieve a specific surface finish in single point turning, the most important factor Q)The cutting speed is maximum while machining _____ with a HSS tool--> Aluminum Q)The cutting speed is minimum while machines _____ with a HSS--> Cast iron Q)An operation of embossing a diamond shaped pattern on the surface of a work piece is known as--> Knuckling Q)The spindle speeds of machine tools are usually designated to follow.--> geometrical progression Q)The best machine for mass production of watch components machined from bar will be-->

Q)A Good ubricant for threads cutting operations is--> Mineral lard oil

multi spindle automatic lathe

- Q)If L be the length of job , D its diameter, F feed and N the spindle speed, then time for turning of the job equal to--> L/ FN
- Q)Internal or external taper on a turret lathe can be turned by--> Taper turning attachment
- Q)The purpose of charging dial on lathe is to achieve--> Picking with thread accurately at the beginning of each cut
- Q)No lubricant is required when cutting thread--> Brass or Cast iron
- Q)On screw machining having cross and vertical slides cutting off operations and usually performed by the--> Vertical slide
- Q)Trepanning is performed for--> Producing a large hole without drilling
- Q)If the diameter of a job being machined on lathe is doubled speed halved, the cutting time

will be--> Four time

- Q)In automatic machine where large number of components an machined from a bar, is held in--> Collect chuck
- Q)On bar type turned lathes, work to be machined is gripped in--> Collet chuck.
- Q)In a capston lathe, the turret is mounted on--> A short slide of ram sliding on the saddle
- Q)In a turret lathe, the turret is mounted on--> The saddle sliding with bed
- Q)Enlarging an existing hole with a rotating single print tool is called--> Boring
- Q)In reaming process--> High dimensional accuracy is obtained
- Q)Tapes, drills and reamers etc. are made by--> HSS
- Q)The time taken to drill a hole through a 25mm thick plate with the drill rotating at 300 rpm and moving at a feed rate of 0.25 mm/revolution--> 20 sec
- Q)The spade drills are used for drilling--> Deep and large diameter holes
- Q)Tolerance in drilling is function of the--> Feed and size of drill
- Q)For hard materials, the drill point angle is--> Higher
- Q)In a drilling operation if the drill point is outside the drill axis the effect of hole will be--> The hole became too large
- Q)Drill checks are used for holding--> Straight shank drills
- Q)Shank of a taper or drills are provided with standard taper and it sknown.--> Morse taper
- Q)Which one of the following processes results in the best accuracy of the hole made-->
 Reaming
- Q)Which of the following cutter should use in a drilling machine to recess the head of the bolt screw.--> counter bore
- Q)Feed of drill is--> The distance the drill moves parallel to its axis into the work in each revolution of the spindle.
- Q)The cutting lip angle of the drilk- 1180
- Q)_____ is the operation of making a core shaped enlargement at the end of drilled hole-->
 Counter sinking
- Q)An oversize hole is produced by a drill of--> Lips of drill are of unequal length
- Q)The tool is used to hold the taper-shank drill--> Sleeve
- Q)Uprightdrilling machine is intended for--> Heavier work
- Q)In gang drilling machine the spindle are driven by--> Individual motor
- Q)The drilling machine designed for drilling large and heavy work pieces is--> Upright drilling machine
- Q)The machine which is used to drill a number of holes in a work piece simultaneously is called-> Multiple Spindle drilling machine
- Q)The size of the shaper is determined by--> The maximum length of stroke of the ram
- Q)The hydraulic shaper is widely used because--> It permits the cutting tool to move uniformly during cutting stroke.
- Q)Stroke of the ram in the shaper is adjusted by--> Changing the position of the crank pin
- Q)A reamer is used to correct the--> Size and roundness of a drilled hole
- Q)A twist drill has its point thinned in order to--> Reduce the axial (feed) pressure
- Q)Twist drills are usually considered suitable for machining hole having a length less than--> Five times then diameter
- Q)The depth of cut in drilling is _____ the drill diameter--> One Half

- Q)The table in a slotter is--> Circular table
- Q)Hexagonal slot can be cut in a cylinder by using--> slotter
- Q)In slotter the tool pressure acts--> Along the tool length
- Q)Crank shaper gives--> Quick return motion tothe tool during return stoke
- Q)In hydraulic shaper infinite number of cutting speeds can be obtained from zero to maximum by control of--> Throttle valve
- Q)The cross rail of planer is used to--> Carry the vertical tool post
- Q)Quick returns mechanism on slotter is--> Whit worth mechanism
- Q)Job feeding in a shaper is obtained by--> Table movement
- Q)The relative motion of work piece in planning is--> Translatory
- Q)Quick return mechanism is not require in--> broaching machine
- Q)During machining on a planer--> Cutting tool is stationary
- Q)The average time ratio of cutting stroke to return stroke in a shaper is 3:2
- Q)The planer differs from shaper mainly as--> The table is moving while the tool remains stationary
- Q)Feed in shaping is expressed in--> mm/stroke
- Q)Flat thin work is held on planer by--> Toe dogs and tops
- Q)For proper seating of the work in a shaper vise for machining, the work should be supported on--> Parallels
- Q)The cutting speed of the tool in a mechanical shaper is > Maximum at the middle of the cutting stroke
- Q)Cylindrical parts as held on planer by--> V Block, T- Bolts and clamps
- Q)To shape splines in a shaft which must be accurately spaced, the work is mounted in-->
 Between indexing centers
- Q)Which of the following work holding device is preferred for shaping a keyway in a cylindrical shaft.--> V Block
- Q)Size of planer is size used by--> Size of table and height of cross rail