Machinist - Semester 3 Module 1: Tool and Cutter grinding

Reviewed and updated on: 01st November 2019 Version 1.1

1 : Which grinding machine is used for sharpening of cutters?

A : Surface grinder

B: Tool and Cutter grinder

C : Pedestal grinderD : Cylindrical grinder

2 : Which material is used to make the base of tool and cutter grinding machine?

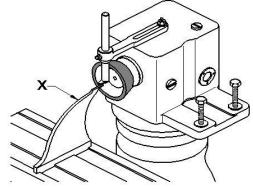
A : Grey cast ironB : Low carbon steelC : Tool steel

D : Bronze

3 : Which part mounted directly on the top of base in tool cutter grinder?

A : ColumnB : SaddleC : TableD : Wheel

4 : What is marked as 'x'?



A : Centre gaugeB : Feeler gaugeC : Pitch gaugeD : Snap gauge

5 : Where is tooth rest fitted in tool and cutter grinder?

A : Tooth rest attachmentB : In between centres

C : Tail stockD : Column

6 : Which is the shape of grinding wheel used for sharpening milling cutter and reamer?

A : Disc

B : Straight cup C : Flaring cup

D: Dish

7 : What is the use of work holding device?

A : Keep the work piece in a safe distance

B : Keep the cutter in a safe distanceC : Keep the work piece in position

D: Keep the cutter in position

8 : How many number of swivelling movement is provided with universal vice?

A : 2 B : 3 C : 4 D : 6

9 : Which tool is used to form the radius on grinding wheel for radius grinding attachment?

A : H.S.S single point toolB : Brazed single point tool

C : Diamond stickD : H.C.S tool

10 : What is the use of a mandrel?
A : For guide the grinding wheel
B : For hold the hollow cutters
C : For support the wheel head

D: For guide the table

11 : What is the angular setting limit of an angular sine vice used in tool and cutter grinder?

A : Upto 27°B : Upto 55°C : Upto 80°D : Upto 120°

12 : Which attachment is used for grinding face mill up to 400mm dia?

A : Universal vice

B : Motor drive arrangementC : Face mill grinding attachment

D: Angular sine vice

13 : What is the use of radius wheel turning attachment in tool and cutter grinder?

A : Dress the wheel to the required radius up to 25mm

B : Turn the work piece to any required shapeC : Turn the work piece to a radius up to 12mm

D : Dress the wheel to any required shape

14 : Which grinding machine is used for resharpening of single point tools, chisel, punches and drills?

A : Surface grinder

Machinist - Semester 3 Module 1: Tool and Cutter grinding

Reviewed and updated on: 01st November 2019 Version 1.1

B : Single purpose tool cutter grinder

C: Cylindrical grinder

D: Universal tool and cutter grinder

15 : What is the maximum swiveling angle of wheel head on a tool cutter grind machine?

A : 360° **B** : 120° **C** : 90° **D** : 47°

16 : Which part of the tool and cutter grinding machine on that wheel head is being mounted?

A : BaseB : SaddleC : TableD : Column

17 : What is the remedy to remove the black and shining face of grinding wheel?

A : Changing of wheelB : Truing of wheelC : Dressing of wheelD : Balancing of wheel

18 : Why centre gauge is provided on tool and cutter grinding?

A : For centering the wheel spindle and cutter edges

B: For align the table to the spindle axis

C : For reduce the wheel speedD : For fast metal removal

19 : Which part is used to support each individual tooth of cutter in correct position on tool and cutter grinder?

A : Compound restB : Steady restC : Tool restD : Tooth rest

20 : What happened if tool little clearance is provided on milling cutter?

A: Chattering produced
B: No heat produced
C: Good surface finish
D: Bad surface finish

21 : What is the recommended range of secondary clearance angle on milling cutter?

A : 1° to 3°

B : 4° to 7°C : 8° to 12°D : 15° to 25°

22 : What is the recommended range of clearance angle for H.S.S cutter while milling cast iron?

A : 28° to 37°B : 15° to 25°C : 4° to 7°D : 1° to 5°

23 : Which work holding device is used on tool and cutter grinder for grinding the periphery and bevelled edges on it?

A : Face mill grinding attachment
 B : Taper turning attachment
 C : Slotting attachment
 D : Grinding attachment

24 : Which attachment is designed for holding work to any desired compound angle?

A : Universal viceB : Angular sine vice

C : Positive indexing attachmentD : Motor drive arrangement

25 : Which grinding attachment is specially designed for enable the work up to a length of 750 mm?

A : RH and LH extension tail stock

B: Universal vice

C : Positive indexing attachment

D: Tap relieving sharpening attachment

26 : Which attachment is designed for grinding the land of a tap?

A : Radius wheel turning attachment

B: Angular sine vice

C: Tap relieving and Sharpening attachment

D: Milling attachment

27 : Which attachment is used for precision grinding of angular parts?

A : Motor drive attachmentB : Positive indexing attachment

C : Universal viceD : Angular sine vice

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28 : Which letter used for represent for datum for indicating geometrical tolerance?

A : GB : MC : BD : A

29 : What is the definition of "GD and T'?
A : Geometrical Deviations and Tolerances
B : Geometrical Dimensioning and Tolerances
C : Geometrical Drawing and Techniques
D : Geometrical Drawing and Tolerances

30 : What is the symbol used for to check the flatness?

A :

В



С



D



31 : What is the accuracy of depth micrometer?

A : 0.5 mmB : 0.001 mmC : 0.01 mmD : 0.05 mm

32 : Which work holding device is used for profile milling of cam?

A : Swivel base vice

B: Circular table attachment

C : Bolt and NutsD : Fitting vice

33 : What is the pitch of spindle screw in depth micrometer?

A : 0.5 mm **B** : 0.001 mm

C : 0.01 mm **D** : 0.05 mm

34 : Which type of micrometer does not require zero error correction?

A: Tube micrometer
B: Ball micrometer
C: Stick micrometer
D: Digital micrometer

35 : What is pitch of M12 tap?

A : 1.50 mmB : 1.75 mmC : 1.25 mmD : 1.00 mm

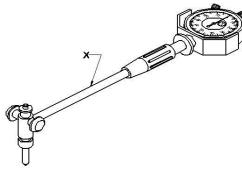
36 : What is used to measure different holes accurately with bore dial gauge?

A : Graduations on the dial

B: Inter changeable measuring rods

C : Sliding plungerD : Centering shoes

37 : What is the part marked as 'X'?



A : AvilB : StemC : PlungerD : Centring shoes

38 : Which type of milling machine is used for spot facing?

A : Horizontal miling machine
 B : Vertical milling machine
 C : Pantograph milling machine
 D : Planetary milling machine

39 : What is the use of telescopic gauge?

A : To measure depth of holesB : To measure slot depth

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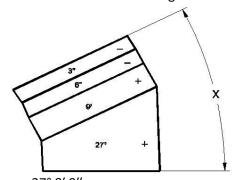
C: To measure size of hole slots and recesses

D : To measure counter bore depth

40 : What is the use of thread ring gauge?

A : Check the internal thread
B : Check the external thread
C : Check the thread length
D : Check the internal diameter

41 : What is the size of angle?

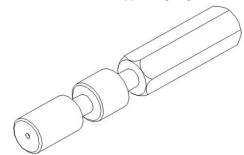


A : 27° 8′ 9″ B : 26° 8′ 9″ C : 27° 8′ 5″ D : 27° 9′ 9″

42 : What is the shape of angle gauge?

A : SquareB : WedgeC : RectangleD : Cylinder

43 : What is the type of gauge?

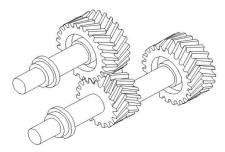


A : Ring gauge

B: Double ended plug gauge

C : Thread plug gaugeD : Progrssive plug gauge

44 : What is the type of gear?



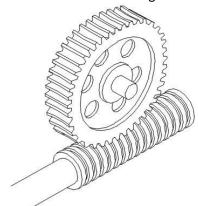
A : Helical gearsB : Spur gearC : Mitre gear

D: Herring bone gear

45 : What is the unit of module in spur gear?

A : MicronsB : CentimeterC : MillimeterD : Meter

46 : What is the name of gear drive?



A : Rack and PinionB : Bevel and Mitre gearC : Worm and Worm gearD : Herring bone gear

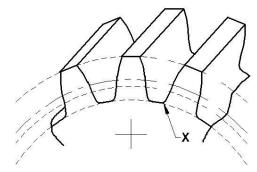
47 : What is the height of tooth in spur gear?

A : AddendumB : DeddendumC : 2 x Addendum

D : Addendum + Deddendum

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48 : What is marked as 'X'?



A : FilletB : Pitch circleC : Addendum circleD : Pitch radius

49 : Which type of group the squarness comes under in geometrical tolerance?

A : LocationB : FormC : Datum lineD : Attitude

50 : How to identify and indicate the geometrical tolerance?

A : NumbersB : AlphabetsC : DecimalsD : Symbols

51 : What is the use of depth micrometer?

A : Check the width of slots

B: Check the depth of blind holes

C : Check the dia of holes

D: Check the diameter of thin rods

52 : Which mechanism used to rotate the circular table?

A : Rack and Pinion mechanismB : Bevel gear mechanism

C: Pawl and Ratchet mechanism

D: Worm and Worm wheel mechanism

53 : What is the uses of screw thread micrometer?

A : Measure major diameter
 B : Measure pitch diameter
 C : Measure minor diameter
 D : Measure thickness of threads

54 : Which type of micrometer designed to measurement of longer internal length?

A : External micrometer
 B : Outside micrometer
 C : Inside micrometer
 D : Stick micrometer

55 : How to set the zero before taking the measurement in micrometer?

A : Use micrometer

B : Use vernier micrometerC : Setting rings and Slip gauge

D: Angle gauges

56 : How many sets available in telescopic gauge?

A : 8 B : 10 C : 6 D : 5

57 : What are the sizes available in telescopic gauges as per mitutyo series 155?

A: 12 mm to 130 mm
B: 20 mm to 175 mm
C: 5 mm to 120 mm
D: 8 mm to 150 mm

58 : What is the range of sizes in feeler gauges as per IS: 3179?

A : 0.001 to 0.05 mm
B : 0.01 to 0.3 mm
C : 0.03 to 1.00 mm
D : 0.02 to 0.75 mm

59 : How much tolerance is maintained to make gauges comparing job tolerance?

A : One - TenthB : One - FifthC : One - HundredthD : One - Eight

60 : How much depth cut is applied to finish cut in slot milling?

A : 0.4 to 0.5 mm
B : 0.6 to 0.8 mm
C : 0.5 to 1.0 mm
D : 0.5 to 0.75 mm

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61 : How can you check the width of keyways?

A : Depth micrometer

B : Vernier caliper inner jawC : Out side micrometerD : Bore dial gauge

62 : What types of gear is are in automotive

differential gear boxes?

A : Worm and Worm gearB : Rack and Pinion gear

C : Hypoid gearD : Angular gear

Machinist – Semester 3 Module 3: Rack, Spur gear milling, Boring and Checking gear tooth

Reviewed and updated on: 01st November 2019 Version 1.1

63 : Which mechanism is used to convert rotary motion into reciprocating motion?

A : Worm and Worm gear

B: Helical gear set

C: Bevel gear and Hypoid gear

D: Rack and Pinion

64 : How the pitch of a rack is specified?

A : In addendumB : In depthC : In linearD : In module

65 : Where is rack milling attachment fixed on a milling machine?

A : Between the knee and Elevation screwB : Between the face of the column and Arbor support

C : Between the saddle and KneeD : Between the column and Knee

66 : Which part has the movable jaw of gear tooth vernier caliper?

A : Vertical sliding headB : Horizontal slidingC : Fine adjustment headD : Vertical slide blade

67 : Which instrument is very similar to the principle of a veriner caliper?

A : MicrometerB : Bevel protractor

C: Gear tooth vernier caliper

D: Steel rule

68 : What is the addendum of gear teeth?

A : Distance between outside circle to pitch circle

B : Distance between outside circle to root circle
 C : Distance between pitch circle to root circle
 D : Distance between outside to bottom point of

gear

69 : What is the least count of gear tooth vernier caliper?

A : 0.1 mmB : 0.01 mmC : 0.2 mmD : 0.02 mm

70 : Which instrument is used to check the chordal addendum of a gear teeth?

A : Screw gaugeB : Vernier caliper

C : Gear tooth vernier caliper

D : Feelar gauge

71 : What is the use of sector arm on dividing head?

A : Lock the index crank in position
 B : Eliminate counting holes each time
 C : Fix the index plate on its correct location
 D : Avoid the back lash of worm and Worm wheel

72 : How many turns of index crank is required for one complete turn of index head spindle?

A : 20 B : 28 C : 40 D : 46

73 : Where the index crank is fixed on index head?

A : Sector armB : Index plateC : Worm shaftD : Worm gear

74 : What kind of material is used to produce a template?

A : Good quality iron tube
B : Good quality round rod
C : Good quality copper sheet
D : Good quality steel sheet

75 : What is the use of template?

A : Checking the contour of component
 B : Checking the length of component
 C : Checking the weight of component
 D : Checking the width of component

76 : What is the use of radius gauge?

A : For check internal and external radius of jobB : For check the gap between two sliding

surfaces

C : For identify the accuracy of joining parts

D : For measure the diameter of jobs

Machinist – Semester 3 Module 3: Rack, Spur gear milling, Boring and Checking gear tooth

Reviewed and updated on: 01st November 2019 Version 1.1

77 : How a vertical milling machine can be identified?

A : According to the axis of table movement
 B : According to the axis of knee movement
 C : According to the axis of spindle rotation
 D : According to the posistion of column

78 : Which type of machine is used to produce a T-slot in machine tools table?

A : Lathe

B : Horizontal millingC : Verical millingD : Drilling machine

79 : Which part of vertical milling that can be used for lift the knee?

A : Vertical headB : Table lead screwC : Elevating screwD : Front brace

80 : Which machine used for boring, key way cutting and profile milling can be done?

A : Lathe machine
B : Shaping machine
C : Verical milling machine
D : Horizontal milling machine

81 : How angular boring is done using a vertical milling machine?

A : Swivelling the machine vice

B : Swivelling the table

C : Swivelling the spindle headD : Swivelling the column

82 : What type of cutter holding device is generally used on vertical miling machine?

A : Collet chuckB : Long arborC : Clapper blockD : Taper sleeve

83 : Which type of machine is generally used for wood ruff key way cutting?

A : ShaperB : Slotter

C : Vertical millingD : Horizontal milling

84 : Which machine is provided with the over arm support for reduce chattering?

A : Vertical milling machine

B: Shaping machine

C: Horizontal mlling machine

D: Slotting machine

85 : Which formula is used to find out the linear pitch of a rack?

86 : How length of rack is calculated?A : Linear pitch x Number of teethB : Module x Number of teeth

C : $2.25 \times \text{module}$ **D** : $\pi \times \text{Module}$

87 : Which formula is used to calculate chrodal addendum of a gear tooth?

A : π m **B** : mZ

C: mZ sin (90/z) **D**: (Z + 2) M

88 : Which part of a gear tooth vernier caliper is used to set the addendum height?

A : Vertical slide with blade

B : Horizontal slide with movable jaw

C: Verical slide and fixed jaw

D : Graduated vertical beam and fixed jaw

89 : How to find the out side diameter of a spur gear having number of teeth is 'Z' and module 'm'?

A : OD = Z/m
 B : OD = (Z-2) / m
 C : OD = (Z - 2)m
 D : OD = (Z + 2)m

90 : What formula is applied for calculate the pitch diameter of a spur gear tooth?

A : Zxm B : (Z+2)m C : Zxm/2 D : 7/6xm

91 : How many hole circle is suitable for indexing 48 division in index plate?

Machinist – Semester 3 Module 3: Rack, Spur gear milling, Boring and Checking gear tooth

Reviewed and updated on: 01st November 2019 Version 1.1

A : 18 B : 20 C : 23 D : 29

92 : Which formula is used to find the gear ratio for differential indexing?

A : (N x 40) x A B : (A-N) x 40/A C : 2A x 40/A D : (A - N) x 40A

93 : How any degree is possible to swive on the vertical head of a vertical milling?

A : 15°B : 25°C : 35°D : 45°

94 : Which feed is given while sliding the column in vertical milling?

A : Circular feedB : Cross feedC : Longitudinal feedD : Vertical feed

95 : Which machine the spindle can be moved up an down?

A : Vertical milling machineB : Horizontal milling machine

C : Lathe machineD : Shaping machine

96 : Why micro cartridges are used on boring bar in vertical milling machine?

A : Final adjustment of tool

B : Useful for fast roughing of boreC : Useful for large hole drillingD : Useful for step boring easily

97 : Why the over arm is provided on horizontal milling machine?

A : It reduce the vibration of table while milling

B: It support the other end of arbor

C: It guide the top end of elevating screw

D: It support the knee

98 : Which type of cutter holding device is generally used on horizontal milling machine?

A : Long arborB : Collet chuckC : Drill chuckD : Three jaw chuck

Machinist – Semester 3 Module 4: Helical gear, Flutes milling and Reamers and Twist drills

Reviewed and updated on: 01st November 2019 Version 1.1

99 : How many elements must be known in cut a helix or a spiral?

A : 2B : 1C : 5D : 6

100 : What is the line generated by the progress and rotation of a point around a cylinder?

A : SprialB : HelixC : BevelD : Taper

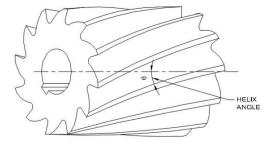
101 : What is the maximum helix angle determined in helical gear?

A : Obtue angleB : Acute angleC : Right angleD : Reflex angle

102 : Which trigonometric ratio is determined the helix anfge for helical gear?

 $\begin{array}{lll} \textbf{A} & : & \mathsf{Tan}\,\theta \\ \textbf{B} & : & \mathsf{Sin}\,\theta \\ \textbf{C} & : & \mathsf{Cosec}\,\theta \\ \textbf{D} & : & \mathsf{Cos}\,\theta \end{array}$

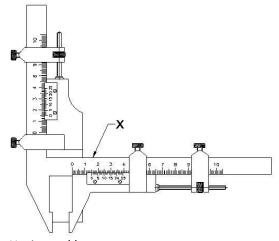
103 : What is the name of cutter?



A : Side and Face milling cutter

B : End mill cutterC : Slab milling cutterD : Shell and Mill cutter

104 : What is the part marked as 'X'?



A : Horizontal beamB : Vertical beam

C : Horizontal sliding headD : Vertical sliding head

105 : Which type of indexing is used to cut the helical gear?

A : Direct indexingB : Differential indexingC : Angular indexingD : Simple indexing

106 : What formula is used to determine the selection of cutter number for helical gear?

Α

Cutter Number =
$$\frac{N}{(\cos \alpha)^2}$$

B :

Cutter Number =
$$\frac{(\cos \alpha)^2}{N}$$

C :

Cutter Number =
$$\frac{N}{(\sin \alpha)^3}$$

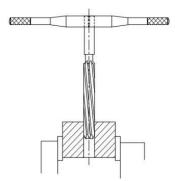
D :

Cutter Number =
$$\frac{N}{(\cos \alpha)^3}$$

Machinist – Semester 3 Module 4: Helical gear, Flutes milling and Reamers and Twist drills

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107 : What is the type of reamer?



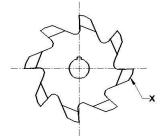
A: Hand reamer with pilot

B : Machine reamerC : Hand reamerD : Jobber reamer

108 : What is ratio of taper pin hand reamer?

A : 1:50B : 1:40C : 1:30D : 1:20

109 : What is the part marked as 'X'?



A : FaceB : FluteC : Heel

D: Cutting edge

110 : Which type of reamer used to finish the holes for fitting taper pins on taper holes?

A : Taper reamerB : Rose reamerC : Machine jig reamer

D: Taper pin machine reamer

111 : Which part is ensure positive drive of the drill from the drill spindle?

A : ShankB : TangC : NeckD : Point angle

112 : Where is engraved diameter and other particular of the drill?

A : ShankB : TangC : NeckD : Face

113 : Which part is held and driven the drill?

A : NeckB : TangC : HeelD : Shank

114 : What is the lip clearance angle in drill?

A : 15°B : 12°C : 18°D : 118°

115 : Which milling machine is suitable for helical milling?

A : Horizontal milling machine
 B : Universal milling machine
 C : Pantograph milling machine
 D : Vertical milling machine

116 : When you cut left hand helix which direction must be swivelled the table in the milling machine?

A : Counter clock wise direction

B: Clock wise direction

C: Table filting downward position

D: Table at stable condition

117 : Calculate the real module in helical gear the pitch diameter (PD) is 100 mm and number of teeth 19.

A : 5.00 mmB : 0.19 mmC : 5.26 mmD : 20 mm

118 : Which type of gear is used for high speed running and heavy duty gear drives?

A : Spur gearB : Helical gearC : Angular gear

D: Worm and Worm gear

Machinist – Semester 3 Module 4: Helical gear, Flutes milling and Reamers and Twist drills

Reviewed and updated on: 01st November 2019 Version 1.1

119 : Why reamers have uneven spacing of teeth?

A : To be maintain the hole diameter
B : To be cut excessive material
C : To be cut less material

D: To reduce chattering

120 : What is the name of the reamer used with several sizes of reamers in with one shank?

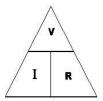
A : Adjustable machine reamerB : Reamers with floating holders

C : Shell reamerD : Chucking reamer

Machinist - Semester 3 Module 5: Basic electrical equipments and Sensors

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121 : Which is the law related to the given figure?



A : Ohm's lawB : Krichhoff's lawC : Faraday's lawD : Lenz's Law

122 : What is the electrical property of an electrical circuit to oppose any change in the magnitude of current flow?

A : ConductivityB : InductanceC : InsulationD : Capacitance

123 : Which machine converts electric energy into mechanical rotary motion?

A : MotorB : GeneratorC : TransformerD : Solenoid

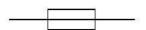
124 : Which component rotates in an electric generator?

A : Field poleB : BrushesC : FrameD : Armature

125 : Which equipment converts mechanical energy to electrical energy?

A : D.C. motorB : GeneratorC : TransformerD : A.C. motor

126 : What is the general electrical symbol?



A : SwitchB : ResistorC : FuseD : Capacitor

127 : Which accessary acts as switch and fuse?

A : IsolaterB : MCBC : FuseD : Switch

128 : What is the purpose of LVDT?

A : Measure currentB : Measure temperatureC : Measure voltageD : Measure displacement

129 : What is relation or I,V,R according to the Ohm's Law?

A : I = V/R B : I = R/V C : I = I/VR D : I = RV/I

130 : What is the name of the device used to provide inductance in a circuit?

A : Volt meterB : AmmeterC : InductorsD : Solenoid

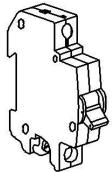
131 : Which electrical device detect the fault indication automatically?

A : RelayB : Thermostat

C : Intermediate switch

D: Limit switch

132 : What is the name of device?



A : MCBB : ELCBC : RelayD : Thermostat

133 : What is the expansion of LVDT in sensor?

A : Linear Variable Differential Transformers

Machinist – Semester 3 Module 5: Basic electrical equipments and Sensors

Reviewed and updated on: 01st November 2019 Version 1.1

B : Linear Various Differential Transformer
 C : Linear Variedly Differential Transformer
 D : Low Variable Differential Transformers

134 : What is the name of the electro mechanical device having insulated wire wound over a solid iron core?

A : MotorB : SolenoidC : TransformerD : Inductor

135 : Which rule determines the direction of motion of the conductor in D.C. motor?

A : Fleming's right hand ruleB : Fleming's left hand ruleC : Marewells right hand grip rule

D: Cork's screw rule

136 : Which law states the working principle of the generator?

A : Lenz's lawB : Ohm's law

C : Faraday's law of electro magnetic induction

D: Kirchhoff's law

137 : What is the component have the same physical dimensions of MCBs but cannot be used for automatic tripping?

A : FuseB : IsolatorC : StarterD : Relay

138 : Which is the technology used by photo electric sensors for sensing the target?

A : InductiveB : CapactiveC : Photo electricD : Ultra sonic

139 : Which is the quantity being measured by the strain gauge?

A : VibrationB : TemperatureC : PressureD : Sound

140 : What is the name of the device used for protecting a circuit against excess current?

A : FuseB : SwitchC : AlarmD : Resistor

141 : What is the letter symbol for inductance?

A : L B : I C : F

142 : What is the sensing range of photo electric proximity sensor?

A : 4mm - 40mm
 B : 3mm - 60mm
 C : 1mm - 60mm
 D : 3mm - 30mm

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143 : Which is general safety in CNC turning?A : Do not use non standard tools / holders

B : Check the voltage and currentC : Check the chuck function

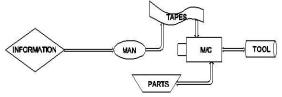
D : Check the programme control levels

144 : What is the safety check on the CNC machine after start?

A : Check the chuck function
 B : Check the voltage and current
 C : Check the hydraulic tank oil level

D: Check the clamping stock

145 : What is the name of machine system?



A : Convention

B : Auto tool changersC : Numerical control

D : Computer numerical control

146 : What is the first step to stop CNC machine of an accident happen while working?

A : Switch off regulatorB : Press emergency switch

C : Reset machineD : Reset regulator

147 : Which motor control the axes of CNC machine?

A : Air motorB : DC series motorC : Servo motor

D : Hydraulic motor

148 : Which mechanism reduces the back lash of CNC lathe?

A : Stopper B : Clutch

C : Recirculating ball screw with nut

D: Break

149 : What is G04?A : Linear interpolationB : CW circular interpolationC : CCW Circular Interpolation

D: Dwell time

150 : Which type of chuck is used in a CNC

lathe?

A : Two jaw chuckB : Three jaw chuckC : Hydraulic chuckD : Four Jaw chuck

151 : What is the maximum machining length in a CNC lathe?

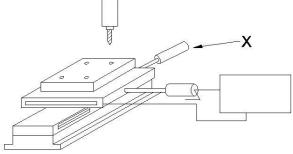
A: 320 mmB: 245 mmC: 200 mmD: 340 mm

152 : What is the spindle speed range in CNC mashing?

machine?

A : 40-500 RAMB : 40-4000 RAMC : 10-600 RAMD : 30-1000 RAM

153 : What is the name part marked as 'X' in block diagram of CNC machine tool?



A : X- axis position transducerB : Y- axis position transducer

C : X- axis servomotor
D : Y- axis servomotor

154 : What types of taper is in the CNC machine spindle?

A : ISO 40B : Morse taperC : Jarno taperD : Pin taper

155 : What R denotes as per ISO designation of boring bar S32USKKR12 of CNC lathe?

A : Shank typeB : Clearence angleC : Tool lengthD : Cutting direction

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156 : Which describing machine tool movement in CNC?

A : G-code
B : M-code
C : T-word
D : S-word

157 : What 'N' of ISO insert tool specifies?

A : ShapeB : GradeC : MaterialD : Relief angle

158 : What is M8 represent in programs off CPU tapping?

A : Coolant offB : Coolant onC : Specific directionD : Tapping RH threads

159 : Which code represents in more flexible and suitable for threading longitudinal transverse and tapered thread?

A : G 76B : G 92C : G 32D : G 34

160 : Which preparatory code should be selected for taper threading cycle?

A : G 32B : G 92C : G 76D : G 33

161 : Which G-code is used for tapping left hand thread with thread M4 in CNC program?

A : G 74B : G 84C : G 28D : G 9

162 : What is the composition of stellite tool material?

A : Cobalt, Chromium and Tungsten
 B : Cobalt, Nikel and Tungsten
 C : Cobalt, Chromium and Nikel
 D : Cobalt, Carbon and Tungsten

163 : Which is the tool selection word is specified?

A : G-Allowed by 5 digit numbers
B : F-Allowed by 5 digit numbers
C : S-Allowed by 5 digit numbers
D : T-Allowed by 5 digit numbers

164 : What is the expansion of CAD?A : Computer Aided Development

B: Computer Aided Design

C : Computer Automatic Development

D: Computer Automatic Design

165 : Which is the disadvantage of NC system?

A : Accuracy cannot be a changeB : Increase compound rejectionC : Skilled operator involves

D : If tape is spoiled, entire program is affected

166 : Which guide way separate the surface contact between the sliding parts by a thin layer of fluid?

A : Flat guide way

B : Vee guide way

C : Hydrostatic guide

C : Hydrostatic guide wayD : Dovetail guide way

167 : When the machine moves 25.49 mm for the commond X = 25.50 mm, what must be the positional accuracy?

A : 0.001 mm
B : 0.01 mm
C : 0.1 mm
D : 1 mm

168 : What should be the safety precaution for holding the work piece to the lathe chuck?

A : Cleaned B : Measured

C: Clamped securl y

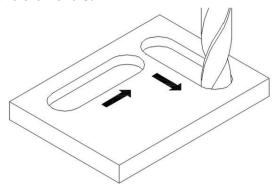
D: Polished

169 : Which part provides linear travel to the tool in CNC lathe?

A : Lead screwB : Ball screwC : Warm wheelD : Rack and Pinion

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170 : Which axis the fore finger indicates in right hand thumb rule?



A : Y axisB : X axisC : Z AxisD : A axis

171 : What is the control system of the CNC machine?

A : Straight cut control
B : 2-D Contouring control
C : 3-D Contouring control
D : 2½ D Contouring control

172 : Which quadrant in cartesian co-ordinate will have positive value both in X and Y?

A : FourthB : SecondC : ThirdD : First

173 : Which G-code description maximum spindle speed setting?

A : G50B : G71C : G72D : G42

174 : What is the function of M02 code in part programming?

A : Programme stopB : Optional stop

C : End of programme execution

D : Coolant ON

175 : Which code is used for peck drilling in FANUC controller system?

A : G 80 **B** : G 76

C : G 72 **D** : G 74

176 : Which G code describe machine tool movement of grooving cycle?

A : G 73B : G 75C : G 92D : G 98

177 : What is the function of G 32 code?

A : Rapid traverseB : Liner inter potationC : Thread cutting

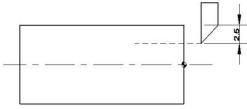
D: Circulation inter polation

178 : What is the role of G-wards in part programming function?

A : Preparatory function

B : Sequence of operation by the toolC : Indicate position of tool motionD : Specify the cutting speed process

179 : Which is the programme for depth of cut of 2-5 mm is given?



A : N003 M0 8 G 01 X -2.5

B : N004 G 01 Z -2.5C : N004 G 01 Z -2.5D : N007 G 00 X + 5

180 : Which is the part programme to limit the RPM to 3000?

A : G 92 S 3000 **B** : G 96 N 3000 **C** : G 00 T 3000 **D** : G 01 S 250

181 : Which common word address used to miscellaneous function in CNC lathe?

A : N B : G C : S D : M

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182 : Which M-code is defined and implement to spindles stop?

A : M05B : M08C : M11D : M14

183 : What is the code M11 defined by the machine tool?

A : Coolant OFFB : Coolant ONC : Chuck closeD : Door close

184 : Which code describe the auxiliary function of CNC machine?

A : N- wordsB : M- wordsC : G- wordsD : T- words

185 : Which is the programme for simple turning operation for the length of -30 mm?

A : N 008 G 01 Y -2.5
 B : N 011 G 00 X 020
 C : N 009 G 01 Z -30
 D : N 010 G 01 X 5 Z -30

186 : Which is the method in avoidance of collisions due to programme?

A : Full cycle simulationB : Reduce motor speed

C: Give less feed

D: Reduce cutter speed

187 : What is the feed of CNC machine XYZ axis?

A : 1 to 2 mm/min
 B : 5 to 50 mm/min
 C : 1 to 1000 mm/min
 D : 1 to 100 mm/min

188 : How many times the cutting speed of ceramic tool is greater than H.S.S?

A : 20 timesB : 15 timesC : 4 timesD : 42 times

189 : Which device enables crash prevention on different types of CNC machines?

A : Encoder - dish position sensors

B : Servo motorC : Control computerD : Comparator

Machinist – Semester 3 Module 7: Program editing, Setting and Simulation

Reviewed and updated on: 01st November 2019 Version 1.1

190 : What is the expansion of MDI in CNC?

A : Mannual Data Input
 B : Managing Diet Instruction
 C : Maintain the Data Instruction
 D : Machine Development in Industry

191 : Which is axis of spindle in CNC lathe?

A : X axis
 B : Y axis
 C : Z axis
 D : 4th axis

192 : Which mode allows an operation to check the program by executing only one program block at a time?

A : Single block mode

B : MDI modeC : Edit modeD : Auto mode

193 : Which is the input of CNC lathe?

A : MicrophoneB : Control panelC : Joy stickD : Mouse

194 : What is 'F' for the given block

G01 X20 Y50 F120?

A : FunctionB : Feed backC : FeedD : Frequency

195 : Which is the control developed by siemens company?

A : UsageB : AllenC : MazatrolD : Sinumeric

196 : What is the simulation process in a CNC machine?

A : Planning functionB : Implementing functionC : Verification activityD : Correcting function

197 : How the simulation take place in CNC machine?

A : By hardware device
B : Through a software
C : Through machined device
D : Through electric device

198 : Which offset is used to adjust the machined size become x 40.44mm instead of programmed size x 40.49 reduced 0.04 mm?

A : Work offsetB : Geometrical offsetC : Wear offsetD : Tool offset

199 : What is the explanation of program N005G01 X 5Z-30?

A : Taper turning for the length of 30 mm
B : Tool returns out to its initial position
C : Tool is moving towards left by 30 mm
D : Against, infeed of 5 mm in given

Machinist – Semester 3 Module 8: Program writing, Tool selection and Execution

Reviewed and updated on: 01st November 2019 Version 1.1

200 : Which traverse 'X' 60 mm as per technical specification of CNC machine?

A : Saddle movementB : Head movementC : Column movementD : Turret movement

201 : What is the mode to check the effectiveness of the program?

A : Dry runB : Jog modeC : Edit mode

D: Single block mode

202 : Which is the start of program in address / numeric key?

A :



В



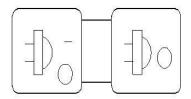
C:



D



203 : What is the symbol identity?



A : Spindle stop / Start
B : Feed stop / Start
C : Single block
D : Direction keys

204 : Which designate length of boring bar as

per ISO designation?

A : S

B : U **C** : 32 **D** : C

205 : What 'P' designate in turning tool holder as per ISO nomenclature?

A : Insert clamping method

B : Insert shapeC : Holder style

D: Insert clearance angle

206 : What X,Y indicates in traverse system of program G85 x 60Y28.. R2F120?

A : Hole position in X axis
B : Hole position in Y axis
C : Hole position XY axis
D : Hole position in X plane

207 : What is terminology distance from the tool zone point on the tool turnout to the tool tip?

A : Reference pointB : Machine zeroC : Zero off setD : Tool off set

208 : What is the terminology of the distance from machine zero point to the work origin point?

A : Reference pointB : Machine zeroC : Zero off setD : Tool off set

209 : What is the designation of the basic movement of sides are in horizontal, vertical and cross direction?

A : XYZB : UVWC : WXVD : VUW

210 : Which is the axis for work offset as measured?

A : X and Y directionB : W and X directionC : X and Z directionD : Y and W direction

211 : What is the drilling cycle code commands in sinumeric system?

A : G83 **B** : G74

Machinist - Semester 3 Module 8: Program writing, Tool selection and Execution

Reviewed and updated on: 01st November 2019 Version 1.1

C: G75 **D**: G84

212 : What does the word Q stand in FANUC system peck drilling cycle syntax as

G 83 X-Y-Z-R-Q-F-K?

A: Depth

B : Position of R planeC : Depth of per passD : Number of repeates

213 : Which machine code is used for parting operation in a CNC machine?

A : G72B : G75C : G92D : G74

ANSWERS:

1:B; 2:A; 3:B; 4:A; 5:A; 6:C; 7:C; 8:B; 9:C; 10:B; 11:B; 12:C; 13:A; 14:B; 15:A; 16:D; 17:C; 18:A; 19:D; 20:D; 21:D; 22:C; 23:A; 24:A; 25:A; 26:C; 27:D; 28:D; 29:B; 30:D; 31:C; 32:B; 33:A; 34:D; 35:B; 36:A; 37:B; 38:B; 39:C; 40:B; 41:C; 42:B; 43:D; 44:D; 45:C; 46:C; 47:D; 48:A; 49:D; 50:D; 51:B; 52:D; 53:B; 54:D; 55:C; 56:C; 57:D; 58:C; 59:A; 60:A; 61:B; 62:C; 63:D; 64:C; 65:B; 66:B; 67:C; 68:A; 69:D; 70:C; 71:B; 72:C; 73:C; 74:D; 75:A; 76:A; 77:C; 78:C; 79:C; 80:C; 81:C; 82:A; 83:C ; 84:B; 85:B; 86:A; 87:C; 88:A; 89:D; 90:A; 91:A; 92:B; 93:D; 94:D; 95:A; 96:A; 97:B; 98:A; 99:A; 100:B; 101:B; 102:D; 103:C; 104:A; 105:B; 106:D; 107:C; 108:A; 109:C; 110:D; 111:B; 112:C; 113:D; 114:B; 115:B; 116:B; 117:C; 118:B; 119:D; 120:C; 121:A; 122:B; 123:A; 124:D; 125:B; 126:C; 127:B; 128:D; 129:A; 130:C; 131:A; 132:A; 133:A; 134:B; 135:B; 136:C; 137:B; 138:C; 139:C; 140:A; 141:A; 142:C; 143:A; 144:A; 145:B; 146:B; 147:C; 148:C; 149:D; 150:C; 151:B; 152:B; 153:D; 154:A; 155:D; 156:A; 157:D; 158:B; 159:D; 160:C; 161:B; 162:A; 163:D; 164:B; 165:D; 166:C; 167:B; 168:C; 169:B; 170:B; 171:B; 172:D; 173:A; 174:C; 175:D; 176:B; 177:C; 178:A; 179:A; 180:A; 181:D; 182:A; 183:C; 184:B; 185:C; 186:A; 187:C; 188:D; 189:A; 190:A; 191:C; 192:A; 193:B; 194:C; 195:D; 196:C; 197:B; 198:C; 199:A; 200:A; 201:A; 202:A; 203:A; 204:B; 205:A; 206:C; 207:D; 208:C; 209:A; 210:C; 211:A; 212:C; 213:B;