

Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

1. Which diameter is maintained in a job for making threads by rolling?

- A) Pitch diameter                      B) Major diameter  
C) Root diameter                        D) Minor diameter

2. Which is the cause of small particles of the material become embedded in the space between the grains of the grinding wheel?

- A) Dressing                                B) Grooving  
C) Glazing                                 D) Loading

3. What is the value of tool life index for cutting cast iron by cemented carbide tool?

- A) 0.125                                  B) 0.128  
C) 0.1                                        D) 0.2

4. What is the depth of cut for 10TPI BSW thread?

- A)  $0.6134 \times 1/10$  Inch                B)  $0.6403 \times 1/10$  Inch  
C)  $0.6314 \times 1/10$  Inch                D)  $0.6304 \times 1/10$  Inch

5. Which device uses buttress thread?

- A) Carpentry vice                        B) Screw jack  
C) General purpose nut and bolt      D) Lead screw of lathe

6. Which form of thread is widely used for fastening purpose?

- A) Square thread                         B) Saw tooth thread  
C) Knuckle thread                        D) V - thread

7. What is the thread depth of square thread SQ60x9?

- A) 18 mm                                  B) 42 mm  
C) 9.0 mm                                 D) 4.5 mm

8. Calculate the depth of buttress thread 60 mm diameter of 9 mm pitch?

- A) 6.75 mm                                B) 5.75 mm  
C) 7.75 mm                                D) 4.75 mm

9. Calculate the flat width of 10 mm pitch buttress thread?

- A) 2.25 mm                                B) 1.25 mm

- C) 3.25 mm                                D) 4.25 mm

10. Why the ball centre is preferred in tail stock offset method?

- A) To avoid damage to the centre drilled hole of the job  
B) For accurate setting  
C) For good surface finish              D) For provide power feed

11. What is the core diameter of BSW thread of 1 inch outer dia and 8 TPI

- A) 0.84 Inch                                B) 0.81 Inch  
C) 0.83 Inch                                D) 0.80 Inch

12. Which mandrels is NOT used in between lathe centres?

- A) Taper Shank mandrels                B) Cone mandrels  
C) Stepped mandrels                      D) Gang mandrels

13. Which thread is recommended for pipe and pipe fittings?

- A) BA thread                                B) BSW thread  
C) BSF thread                                D) BSP thread

14. Which device is used as datum while marking with Vernier height gauge?

- A) Driving plate                             B) Face plate  
C) Angle plate                                D) Surface plate

15. Which one is the example for transmission of motion using thread

- A) Crank and slotted link                B) Bevel gearing  
C) Rack and pinion                        D) Worm and worm shaft

16. What is the reason for providing buttress thread in carpentry vice?

- A) For easy use                             B) For easy manufacturing  
C) Pressure acts at one flank            D) For better appearance

17. A thread is represented as M12 x 1.5. What does represent the letter 12?

- A) Pitch                                      B) Minor diameter  
C) Major diameter                         D) Root diameter

**18.** Find the gear required to cut 3 mm pitch in a lathe having a lead screw of 6 TPI gear available from 20 to 120 teeth by 5 teeth with a special gear of 127 teeth?

- A) Driver 20 teeth Driven 60 teeth  
B) Driver 90 teeth Driven 127 teeth  
C) Driver 60 teeth Driven 20 teeth  
D) Driver 127 teeth Driven 90 teeth

**19.** Which one is the disadvantage of taper turning by compound slide method?

- A) Taper length is limited to the movement of the top slide  
B) Steep taper cannot be produced  
C) Only external taper can be turned  
D) Damages the centre drilled holes of the work

**20.** How many number of teeth in translating gear used for cutting metric thread on British lathe?

- A) 30  
B) 63  
C) 120  
D) 100

**21.** What will happen if threading tool is set below centre height?

- A) Major diameter will be changed  
B) Thread will be damaged  
C) Pitch will be changed  
D) Difficult for catching

**22.** Calculate the least count of V.B.P if 23 div on main scale is divided into 12 equal parts

- A) 1 Degree - 50 Degree  
B) 28 Degree  
C) 100 Degree  
D) 5 Degree

**23.** What is the angle of metric ACME thread

- A) 45 Degree  
B) 29 Degree  
C) 47.5 Degree  
D) 30 Degree

**24.** What is the reason for using dial indicator instead of scribe point in Vernier height gauge?

- A) To check eccentricity  
B) For good appearance  
C) For accurate measuring  
D) For accurate marking

**25.** Which material is suitable for button die chaser?

- A) H.C.S  
B) Low strength material  
C) High strength material  
D) H.S.S

**26.** Find the gears for simple gear train, if pitch of lead screw is 6 mm and pitch of thread to be cut is 2 mm?

- A) 40/150  
B) 50/120  
C) 30/120  
D) 40/120

**27.** What is the angle of ACME thread

- A) 60 Degree  
B) 29 Degree  
C) 55 Degree  
D) 45 Degree

**28.** What is the relationship between pitch and depth of a square thread?

- A) Depth is 1/2 pitch  
B) Depth is equal to pitch  
C) Depth is 3/4 pitch  
D) Depth is 1/4 pitch

**29.** What is the use of hand chaser?

- A) To cut new thread  
B) For production job  
C) Correcting and finishing a thread  
D) For making square thread

**30.** Which formula is to find crest width of ACME thread?

- A)  $0.75 \times \text{pitch}$   
B)  $0.5 \times \text{pitch}$   
C)  $0.317 \times \text{pitch}$   
D)  $0.335 \times \text{pitch}$

**31.** What is the criteria for the selection of interchangeable anvil of a screw thread micrometer?

- A) Profile and pitch  
B) Root diameter  
C) Major diameter  
D) Minor diameter

**32.** Which is used to support hollows end jobs?

- A) Pipe centre  
B) Female centre  
C) Ball centre  
D) Tipped centre

**33.** What is the angle of a BIS metric thread?

- A) 27.5 Degree  
B) 55 Degree  
C) 45 Degree  
D) 60 Degree

**34.** Which material is used for making the head of soldering iron?

- A) Forged steel  
B) Stainless steel  
C) Forged copper  
D) Forged aluminium

**35.** What is removing dull grain in order to make grinding wheel sharp?

- A) Glazing  
B) Trueing  
C) Loading  
D) Dressing

**36.** What is the core dia of square thread 75 x 11 mm pitch?

- A) 70 mm  
B) 65.8 mm  
C) 60 mm  
D) 64 mm

**37.** What is the thread form cut by using chasers?

- A) External square thread  
B) Internal square thread  
C) External and internal V - Thread  
D) Trapezoidal thread

38. Which is the method to produce accurate internal thread?

- A) Thread rolling
- B) Thread milling
- C) Using dies
- D) Thread chasers

39. Which formula is used to find depth of buttress thread?

- A)  $0.5 \times \text{pitch}$
- B)  $0.75 \times \text{pitch}$
- C)  $0.6403 \times \text{pitch}$
- D)  $0.6134 \times \text{pitch}$

40. What is the purpose of using taper parallels in thread measurement?

- A) To measure the minor diameter of external thread
- B) To measure the minor diameter of internal thread
- C) To measure the major diameter of external thread
- D) To measure the major diameter of internal thread

41. Calculate the driven gear required to cut 4mm pitch thread is a lathe having lead screw of 4mm with driven gear of 60 teeth?

- A) 100
- B) 120
- C) 60
- D) 50

42. What is formula for finding depth of BSW external thread?

- A)  $0.5 \times \text{pitch}$
- B)  $0.7 \times \text{pitch}$
- C)  $0.6403 \times \text{pitch}$
- D)  $0.6134 \times \text{pitch}$

43. Which method of thread forming does not produce chips and used in mass production?

- A) Taps and dies
- B) Thread milling
- C) Thread grinding
- D) Thread rolling

44. What is the isolating medium to prevent rapid cooling after brazing a tipped tool?

- A) Wet sand
- B) Oil
- C) Water
- D) Mica powder

45. What should be the heights of gauge block to be built to check the work angle of 30 Degree using 150 mm sine bar?

- A) 291.26
- B) 38.62
- C) 75
- D) 145.63

46. Which one is the disadvantage of using tail stock offset method?

- A) Only hand feed can be given
- B) Taper turning is possible when work held between centre only
- C) External threads on taper can't produce
- D) Taper length is limited

47. What is the disadvantage of chaser?

- A) To cut knuckle thread only
- B) To cut trapezoid thread only
- C) To cut square thread only
- D) To cut V-thread only

48. Which mandrel is manufactured in order to reduce the number of mandrel?

- A) Threaded mandrel
- B) Solid mandrel
- C) Gang mandrel
- D) Stepped mandrel

49. Which is the advantage of taper turning by compound slide method?

- A) Long taper can be produced
- B) Steep taper can be produced
- C) Most suitable for duplicate taper work
- D) Thread on taper portion can be produced

50. How to measure the diameter of the small end of a external taper precisely?

- A) Sine bar
- B) Vernier calipers
- C) Precision roller with slip gauge
- D) Screw gauge

51. What is the depth of square thread 60 x 5 mm pitch?

- A) 5 mm
- B) 4 mm
- C) 2.5 mm
- D) 3 mm

52. Calculate the change gear (driven gear) if driver is 50 teeth to cut 2.5mm pitch thread on a job by lathe having a lead screw of 5mm pitch?

- A) 120
- B) 100
- C) 60
- D) 150

53. Which is main criteria to increase the tool life?

- A) Cutting speed
- B) Feed
- C) Material
- D) Depth of cut

54. What is the purpose of using thread micrometer?

- A) Measure major diameter
- B) Measure minor diameter
- C) Measure effective diameter
- D) Measure pitch of the thread

55. What is the only thread form cut using diehead is turret lathe?

- A) V-Thread
- B) Square
- C) Saw - Tooth
- D) ACME

56. How is the 'length of sine bars' specified?

- A) Distance between the centres of the rollers
- B) Total length of the sine bar
- C) Length of the rollers
- D) Length of datum surface

57. Which bonding material is not affected by water, acid or normal temperature?

- A) Resinoid
- B) Backlite
- C) Rubber
- D) Vetrified

58. What are the uses of B.S.P thread?

- A) General fastening
- B) Automobile industries
- C) Pipe and pipe fittings
- D) Load transmission

59. Which chuck is mainly used for getting a very effective grip over the job?

- A) Collect chuck
- B) Magnetic chuck
- C) Hydraulic chuck
- D) Push - out chucks

60. What percentage of cutting speed is reduced for tool life doubling?

- A) 0.081
- B) 0.084
- C) 0.083
- D) 0.082

61. What is the width of the tool to cut square thread of 30 x 3 mm pitch?

- A) 6 mm
- B) 2 mm
- C) 3 mm
- D) 1.5 mm

62. What is the core dia of square thread 62 x 10 mm pitch?

- A) 52 mm
- B) 56.45 mm
- C) 57.4 mm
- D) 52.7 mm

63. Calculate the least count of V.B.P if 23 div on main scale is divided into 12 scale divisions

- A) 2 minutes
- B) 5 minutes
- C) 4 minutes
- D) 3 minutes

64. Which method of thread forming produce threads on non-metals?

- A) Thread grinding
- B) Thread rolling
- C) Thread casting
- D) Thread milling

65. What is the accuracy of the protractor head of a combination set?

- A) 1 Degree
- B) 1 Degree
- C) 1 Degree
- D) 5 Degree

66. Which formula is used to find crest width of a buttress thread?

- A)  $0.125 \times \text{pitch}$
- B)  $0.317 \times \text{pitch}$
- C)  $0.5 \times \text{pitch}$
- D)  $0.335 \times \text{pitch}$

67. What is the formula for finding gear ratio for fractional pitch thread?

- A)  $\text{DR/DN} = \text{TPI on lead screw} / \text{TPI to cut}$
- C)  $\text{DR/DN} = \text{Leads of screw to be cut} \times \text{No. Of threads per inch of lead screw}$

- B)  $\text{DR/DN} = \text{Lead of work} / \text{No. Of threads per inch}$
- D)  $\text{DR/DN} = \text{Lead of head screw} / \text{Lead of work}$

68. Which method is used for turning steep taper?

- A) Offset tail stock
- B) Taper turning attachment
- C) Compound slide swivel
- D) Form tool

69. What does BIS stand for?

- A) Bureau of Indian society
- B) Bureau of international standard
- C) Bureau of Indian standard
- D) Bureau of international society

70. What term indicate actual size of the abrasive grain?

- A) Grit size
- B) Abrassive type
- C) Grade of bond
- D) Structure

71. Calculate the change gear (driver gear) if driven gear has 120 teeth to cut 3mm pitch on a job using lathe having 6 mm pitch lead screw?

- A) 150
- B) 100
- C) 50
- D) 60

72. What is the minor diameter of screw thread SQ 62 x 10.5 with depth clearance of 0.12 mm?

- A) 51.00 mm
- B) 51.26 mm
- C) 51.88 mm
- D) 46.64 mm

73. How many teeth are in translating gear for cutting metric thread on British lathe?

- A) 129
- B) 125
- C) 127
- D) 122

74. Which part is pivoted to the disc of vernier bevel protractor?

- A) Dial
- B) Stock
- C) Disc
- D) Blade

75. Calculate the gear ratio to cut a 1/4 inch lead on a lathe with lead screw of 2TPI?

- A)  $(3/4)$
- B)  $(2/3)$
- C)  $(1/4)$
- D)  $(1/2)$

76. Which is the term used to express grinding wheels to hold the abrasive particle together?

- A) Structure
- B) Grit
- C) Bond
- D) Grain

**77.** What is the name of device used to drive the work during turning between centres?

- A) Catch plate
- B) Face plate
- C) Lathe carrier
- D) Driving plate

**78.** Which carrier with V-groove provided and used to hold small diameter and square sections?

- A) Clamp type
- B) Bent tail
- C) Straight tail
- D) Safety clamp type

**79.** Which angle is provided on the metric screw thread micrometer anvil?

- A) 47.5 Degree
- B) 30 Degree
- C) 55 Degree
- D) 60 Degree

**80.** What is the shape of buttress thread flank?

- A) One flank is 60 Degree and the other 45 Degree
- B) One flank is 30 Degree and the other 45 Degree
- C) One flank is 90 Degree and the other 45 Degree
- D) Two flanks are at 60 Degree

**81.** Which is the angle of buttress thread?

- A) 55 Degree
- B) 30 Degree
- C) 60 Degree
- D) 45 Degree

**82.** What is the use of a sine bar?

- A) To measure the gap
- B) To determine the angle of tapered job
- C) To measure the diameter of the job
- D) To measure the length of a taper job

**83.** Which parameter of a thread is measured by three wire method?

- A) Major diameter
- B) Minor diameter
- C) Pitch
- D) Effective diameter

**84.** How is the filler material distributed in the joint in braze welding?

- A) By capillary action
- B) By fission
- C) By splashing
- D) By fusion

**85.** How much times the spindle rotate the lead screw to cut 3 mm pitch thread in a 12 mm pitch lead screw?

- A) 6 times
- B) 3 times
- C) 4 times
- D) 5 times

**86.** Which part of the combination set is used for measuring the angles?

- A) Centre head
- B) Protractor head
- C) Rule
- D) Square head

**87.** Which method of holding is used for lengthy work to avoid over hanging?

- A) In four jaw chuck
- B) In face plate
- C) Angle plate
- D) In between centres

**88.** Which terms are needed to calculate tool life index?

- A) Cutting speed and feed
- B) Cutting speed and rpm of job
- C) Depth of cut and rpm
- D) Cutting speed time and index

**89.** What is the use of BSW thread?

- A) Load fitting
- B) Fast movement
- C) Used in electrical appliances
- D) General purpose fastening

**90.** Which is the smallest unit of angular measurement?

- A) Seconds
- B) Minutes
- C) Degree
- D) Radian

**91.** Which is the commonly used method to produce thread in nut?

- A) Tapping
- B) Thread milling
- C) Thread grinding
- D) Thread casting

**92.** What is calculated by formula  $0.75 \times \text{pitch}$ ?

- A) depth of acme thread
- B) depth of buttress thread
- C) depth of square thread
- D) depth of metric thread

**93.** Calculate the depth of buttress thread diameter 30 mm of pitch 3mm?

- A) 2.25 mm
- B) 1.5 mm
- C) 3.00 mm
- D) 1.25 mm

**94.** Find the gears required to cut 4.5mm pitch on a lathe having a lead screw of 4 TPI. Gears available from 20 to 120 teeth by 5 teeth with a special gear of 127T.

- A) 127T on driver and 60T on driven
- B) 90T on driver and 127T on driven
- C) 127T on driver and 90T on driven
- D) 60T on driver and 127T on driven

**95.** What is the purpose of the beveled edges of the rule in a vernier bevel protractor?

- A) Checking squareness
- B) Checking parallelism
- C) Checking 45 Degree and 60 Degree
- D) Checking flatness

**96.** Calculate the driven gear to cut 1.5mm pitch thread on a job using a lathe having lead screw of 5mm pitch with driver gear of 30 teeth?

- A) 60  
C) 100
- B) 50  
D) 120

97. Calculate the driven gear to cut 2mm pitch on a job using a lathe having lead screw of 4mm pitch with driven gear 50 teeth?

- A) 50  
C) 60
- B) 100  
D) 120

98. How much the compound rest should be tilted for cutting metric thread by compound rest?

- A) 45 Degree  
C) 15 Degree
- B) 60 Degree  
D) 30 Degree

99. Which method is preferred for producing small length taper with least accuracy?

- A) Tail stock offset method  
C) Compound slide method
- B) Form tool method  
D) Taper turning attachment method

100. What is the effect of reversing the machine with out disengaging the half nut in thread cutting?

- A) For avoid catching the thread in each cut  
C) Reduce the wear and tear of half nut
- B) For the use of chasing dial  
D) For improve the productivity

101. How the thread are formed in thread rolling?

- A) Plastic deformation  
C) Milling
- B) Casting  
D) Grinding

102. What is the formula to find out core diameter of external thread by using prisms and micrometer?

- A) Core dia = Measurement over prisms ? Height of prisms ? Single depth of thread  
C) Core dia = Measurement over prisms ? Height of prisms + Single depth
- B) Core dia = Measurement over prisms ? Height of prisms + Two depth  
D) Core dia = Measurement over prisms + Height of prisms ? Single depth

103. What is the purpose of tail on the lathe carrier?

- A) Give good finish  
C) Locate and drive the work
- B) Protect the operator  
D) Protect the work

104. What is the formula used to find flat width of a buttress thread?

- A) Pitch/4  
C) Pitch/8
- B) Pitch/6  
D) Pitch/2

105. What is the purpose of using v prism method in thread measurement?

- A) Measure major diameter  
C) Measure the pitch of the thread
- B) Measure minor diameter  
D) Measure effective diameter

106. Which type thread is used in lathe lead screw?

- A) Metric  
C) ACME
- B) Square  
D) Buttress

107. Which welding method is more suitable for joining dissimilar metals readily?

- A) Tig welding  
C) Arc welding
- B) Braze welding  
D) Gas welding

108. What is the angle of saw tooth thread?

- A) 45 Degree  
C) 30 Degree
- B) 90 Degree  
D) 29 Degree

109. What is the thread depth of square thread SQ60x9?

- A) 9.0 mm  
C) 18 mm
- B) 4.5 mm  
D) 42 mm

110. Calculate the driven gear to cut 1.5mm pitch thread on a job using a lathe having lead screw of 4mm pitch with driver gear 30 teeth?

- A) 50  
C) 80
- B) 60  
D) 100

111. What is the reason for using ACME thread in lathe lead screw?

- A) Easily available  
C) Manufacturing cost is less
- B) Suitable for big diameter thread  
D) Enable easy engagement

112. Which type of centre is used in the end of the job if no counter sink hole is permitted?

- A) Revolving centre  
C) Insert type centre
- B) Female centre  
D) Ball centre

113. What is the main disadvantage of a braze welded joints?

- A) Dissimilar metals can be joined  
C) It take more time for repairing
- B) The joint not suitable for thicker sections  
D) Heavy distortion due to heat

114. Which material is used for making nozzle for gas welding?

- A) High carbon steel  
C) Bronze
- B) Copper  
D) Mild steel

115. What is the tool life index of cemented carbide tool for turning high carbon steel?

- A) 0.2  
C) 0.35
- B) 0.4  
D) 0.15

**116.** Why the thread chaser is used to form threads?

- A) To time saving  
C) For easy thread cutting
- B) To reduce labour  
D) To get proper, crest, flat, root radius and profile

**117.** Which method of threading is used in mass production?

- A) Using taps and dies  
C) Thread grinding
- B) Thread rolling  
D) Use single point cutting tool

**118.** What type of thread can be produced by a die?

- A) Internal square thread  
C) External V - thread
- B) Internal V - thread  
D) External square thread

**119.** Which part of the lathe is locked while the form tool method is used for turning taper?

- A) Tail stock  
C) Carriage
- B) Head stock  
D) Compound rest

**120.** What is the minor diameter of Trapezoidal square thread Tr 40 x 7 depth clearance of 0.01 mm?

- A) 32.98 mm  
C) 33.00 mm
- B) 36.50 mm  
D) 36.49 mm

**121.** Which thread is used for general purpose fastening?

- A) BSW  
C) Unified
- B) BA  
D) BSF

**122.** What is the depth of ACME thread of 1inch major diameter 6TPI?

- A) 0.09  
C) 0.084
- B) 0.082  
D) 0.08

**123.** How many seconds is 1 Degree?

- A) 36000%  
C) 6000%
- B) 3600000%  
D) 360000%

**124.** How many un-numbered divisions on the British chasing dial?

- A) 18  
C) 12
- B) 3  
D) 4

**125.** What is the formula for finding the depth of a BIS metric thread?

- A)  $0.6134 \times \text{pitch}$   
C)  $0.6403 \times \text{pitch}$
- B)  $0.6043 \times \text{pitch}$   
D)  $0.6431 \times \text{pitch}$

**126.** Which mechanism is used for converting linear motion into rotary motion in plunger dial gauge?

- A) Scroll and pinion mechanism  
C) Rack and scroll mechanism
- B) Rack and pinion mechanism  
D) Lever and scroll mechanism

**127.** Which angle is ground on ACME threading tool?

- A) 60 Degree  
C) 29 Degree
- B) 55 Degree  
D) 45 Degree

**128.** How can measure the minor diameter of a internal thread?

- A) By three wire method  
C) By screw thread micrometer
- B) By vernier caliper  
D) Using slip gauge pack

**129.** Which type of thread is used in screw jack spindle?

- A) BSW thread  
C) BSF thread
- B) Square thread  
D) Worm thread

**130.** Which is the form of Trapezoidal thread?

- A) BSF  
C) ACME
- B) BSW  
D) Metric

**131.** How can measure the minor diameter of a internal thread accurately?

- A) By plug gauge  
C) By using slip gauge and precision rollers
- B) By three wire method  
D) By screw thread micrometer

**132.** Which method of brazing is commonly used to braze of carbide tip on a shank?

- A) Arc brazing  
C) Torch brazing
- B) Induction brazing  
D) Furnace brazing

**133.** Which is the angle of inclination in the thread to the imaginary perpendicular line?

- A) Helix angle  
C) Right angle
- B) Obtuse angle  
D) Acute angle

**134.** How metric chasing dial differ from British chasing dial?

- A) One worm wheel and one dial  
C) Same as British chasing dial
- B) One worm wheel and different dial  
D) More than one worm wheel and different dial

**135.** What is the name of thread producing method by cold forging and by plastic deformation?

- A) Thread grinding  
C) Thread casting
- B) Thread rolling  
D) Thread milling

136. What is the schedule of lubrication for lathe bed?

- A) Daily
- B) Weekly
- C) Frequently
- D) Monthly

137. Find the change gear (driven gear) to cut 2.5mm pitch thread using a lathe having lead screw of pitch 5mm with driver gear 60 teeth?

- A) 100
- B) 120
- C) 150
- D) 60

138. Calculate the amount of off-set if total length of job = 80 mm and  $\tan = 5$  Degree 45 minutes?

- A) 12 mm
- B) 10 mm
- C) 8 mm
- D) 7 mm

139. Convert 8 Degree 44 minutes into minutes?

- A) 424
- B) 524
- C) 428
- D) 536

140. Which method is non metallic threads are produced?

- A) Thread casting
- B) Thread chasing
- C) Thread grinding
- D) Thread milling

141. Which formula is used to find root width of a buttress thread?

- A)  $0.125 \times \text{pitch}$
- B)  $0.5 \times \text{pitch}$
- C)  $0.317 \times \text{pitch}$
- D)  $0.335 \times \text{pitch}$

142. What is protected by providing pieces between work and carrier while clamping?

- A) Live centre
- B) Dead centre
- C) Carrier
- D) Job surface

143. Which instrument can measure angle upto an accuracy of 5 minutes?

- A) Vernier bevel protractor
- B) Angle gauge
- C) Bevel gauge
- D) Combination set

144. Calculate the change gears to cut a worm of 0.35" lead on a lathe with a lead screw of 4TPI?

- A) Driver 30T, Driven 40
- B) Driver 50T, Driven 30
- C) Driver 70T, Driven 50
- D) Driver 40T, Driven 50

145. Which formula is used to find depth of ACME thread?

- A)  $0.75 \times \text{pitch}$
- B)  $0.6134 \times \text{pitch}$
- C)  $0.6403 \times \text{pitch}$
- D)  $0.5 \times \text{pitch}$

146. What is the relationship between pitch and depth of a buttress thread?

- A) depth =  $0.6403 \times \text{pitch}$
- B) depth =  $0.5 \times \text{pitch}$
- C) depth =  $0.75 \times \text{pitch}$
- D) depth =  $0.6134 \times \text{pitch}$

147. What is the width of the tool to cut a square thread of 60 x 9 mm pitch?

- A) 4.5 mm
- B) 8.5 mm
- C) 9.5 mm
- D) 9 mm

148. How is the vernier height gauge generally specified?

- A) Width of beam
- B) Thickness of beam
- C) Height of beam
- D) Size of base

149. What is the shape of interchangeable anvils used in screw thread micrometer?

- A) V-shape
- B) Circular shape
- C) Square shape
- D) Radius shape

150. Which is the welding process, if base metal and filler is melted to form the joint?

- A) By braze welding
- B) By gas welding
- C) By arc welding
- D) By tig welding

151. Select a suitable instrument for measuring angles?

- A) Vernier height gauge
- B) Vernier bevel protractor
- C) Vernier caliper
- D) Calipers

152. Which mandrel is used for machining similar part where internal diameter vary slightly?

- A) Expansion stud mandrel
- B) Taper Shank mandrels
- C) Stepped mandrels
- D) Gang mandrels

153. Calculate the width of flat of buttress thread 6 mm pitch?

- A) 0.75 mm
- B) 1 mm
- C) 1.5 mm
- D) 2 mm

154. Calculate the change gear required to cut 4mm pitch thread in a lathe having lead screw of 4mm (lathe stud gear (driver has 50 teeth)

- A) 50
- B) 150
- C) 25
- D) 100

155. Which one of the following factor greatly causes to reduce tool life?

- A) Cutting speed
- B) Feed
- C) Depth of cut
- D) Material

156. What is the least count of vernier height gauge?

- A) 0.002 mm
- B) 0.005 mm
- C) 0.001 mm
- D) 0.020 mm

157. What is the name of chuck that hardend steel sleeve having slits cut partly?

- A) Collect chuck
- B) Combination chuck
- C) Magnetic chuck
- D) Hydraulic chuck

158. What is thread element that determine the direction of rotation on screw thread?

- A) Pitch of thread
- B) Lead of thread
- C) Depth of thread
- D) Hand of thread

159. Which is the chip less method of thread production?

- A) Die head
- B) Thread milling
- C) Thread rolling
- D) Thread grinding

160. What is 1.25 stands for a metric thread designated as M12 x 1.25?

- A) Minor dia of thread
- B) Pitch of the thread
- C) Depth of thread
- D) Major dia of thread

161. Which wheel is used for grinding tough materials?

- A) Silicon carbide
- B) Cemented carbide
- C) Ceramic
- D) Aluminium oxide

162. Calculate the change gears necessary to cut a thread of 7/16" lead on a lathe with a lead screw of 4TPI?

- A) Driven 30T, Driver 40T
- B) Driven 70T, Driver 40T
- C) Driver 30T, Driven 40T
- D) Driver 70T, Driven 40T

163. What is the depth of buttress thread if the pitch is 1.8 mm of 45 Degree angle?

- A) 0.910 mm
- B) 1.35 mm
- C) 0.42 mm
- D) 1.23 mm

164. How many carriers are available in a set?

- A) 8 numbers
- B) 4 numbers
- C) 10 numbers
- D) 6 numbers

165. Calculate the change gear ratio to cut a thread of 7/16" lead on a lathe with lead screw of 4 TPI?

- A) 04-Jul
- B) 07-Apr
- C) 03-Jul
- D) 03-Apr

166. Which type of thread is produced by tap and die?

- A) V - thread
- B) Square thread
- C) ACME thread
- D) Saw - tooth thread