

Student Name: _____ Roll No: _____

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

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

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

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

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

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

4. Why the thread chaser is used to form threads?

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

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

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

6. Which material is suitable for button die chaser?

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

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

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

8. Which is the angle of buttress thread?

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

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

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

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

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

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

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

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

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

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

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

14. 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) 120 B) 60
C) 100 D) 50

15. 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) 100 B) 50
C) 120 D) 60

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

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

17. How many carriers are available in a set?

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

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

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

19. 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) Driver 70T, Driven 40T
C) Driver 30T, Driven 40T D) Driven 70T, Driver 40T

20. What is the use of BSW thread?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

28. How many seconds is 1 Degree?

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

29. 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) 75 B) 291.26
C) 145.63 D) 38.62

30. Which is the smallest unit of angular measurement?

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

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

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

32. 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 provide power feed D) For good surface finish

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

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

34. Which terms are needed to calculate tool life index?

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

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

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

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

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

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

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

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

- A) Major diameter
- C) Minor diameter

- B) Pitch diameter
- D) Root diameter

- A) 55 Degree
- C) 27.5 Degree

- B) 45 Degree
- D) 60 Degree

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

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

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

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

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

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

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

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

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

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

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

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

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

- A) 4.25 mm
- C) 2.25 mm
- B) 1.25 mm
- D) 3.25 mm

46. 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 ? Single depth
- D) Core dia = Measurement over prisms ? Height of prisms + Two depth

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

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

48. What is the angle of a BIS metric thread?

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

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

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

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

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

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

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

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

53. Convert 8 Degree 44 minutes into minutes?

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

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

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

55. 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) $0.6431 \times \text{pitch}$
- D) $0.6043 \times \text{pitch}$

56. What is the angle of ACME thread

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

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

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

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

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

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

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

60. Which is used to support hollows end jobs?

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

61. What is the angle of metric ACME thread

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

62. 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) 40/120
- B) 50/120
- C) 40/150
- D) 30/120

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

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

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

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

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

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

66. Which is the form of Trapezoidal thread?

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

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

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

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

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

69. Calculate the depth of buttress thread diameter 30 mm of

pitch 3mm?

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

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

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

71. What is the use of hand chaser?

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

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

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

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

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

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

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

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

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

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

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

77. What is the disadvantage of chaser?

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

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

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

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

- A) Magnetic chuck
- B) Collect chuck

- C) Combination chuck D) Hydraulic chuck

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

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

81. Which thread is used for general purpose fastening?

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

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

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

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

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

84. 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) 80 B) 60
C) 100 D) 50

85. 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

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

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

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

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

88. What is the purpose of using thread micrometer?

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

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

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

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

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

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

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

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

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

93. What is the shape of buttress thread flank?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

101. 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

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

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

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

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

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

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

105. 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) 60
- B) 120
- C) 100
- D) 150

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

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

107. Which method is non metallic threads are produced?

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

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

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

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

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

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

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

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

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

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

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

113. 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) 100
- B) 50
- C) 60
- D) 150

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

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

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

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

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

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

117. 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) 150
- B) 50
- C) 100
- D) 25

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

- A) Right angle
- B) Helix angle

C) Obtuse angle

D) Acute angle

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

A) Thread rolling

B) Taps and dies

C) Thread grinding

D) Thread milling

120. Which device uses buttress thread?

A) General purpose nut and bolt

B) Screw jack

C) Lead screw of lathe

D) Carpentry vice

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

A) 0.2

B) 0.35

C) 0.4

D) 0.15

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

A) Form tool method

B) Tail stock offset method

C) Compound slide method

D) Taper turning attachment method

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

A) 5 Degree

B) 1 Degree

C) 1 Degree

D) 1 Degree

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

A) Pitch

B) Effective diameter

C) Major diameter

D) Minor diameter

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

A) Length of the rollers

B) Total length of the sine bar

C) Length of datum surface

D) Distance between the centres of the rollers

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

A) By fusion

B) By splashing

C) By capillary action

D) By fission

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

A) Reduce the wear and tear of half nut

B) For improve the productivity

C) For avoid catching the thread in each cut

D) For the use of chasing dial

128. 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) Glazing

C) Grooving

D) Loading

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

A) Thread casting

B) Thread rolling

C) Thread grinding

D) Thread milling

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

A) Material

B) Feed

C) Cutting speed

D) Depth of cut

131. 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) 60

B) 50

C) 120

D) 100

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

A) Grain

B) Grit

C) Bond

D) Structure

133. 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 127 teeth Driven 90 teeth

B) Driver 60 teeth Driven 20 teeth

C) Driver 90 teeth Driven 127 teeth

D) Driver 20 teeth Driven 60 teeth

134. Which wheel is used for grinding tough materials?

A) Ceramic

B) Aluminium oxide

C) Silicon carbide

D) Cemented carbide

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

A) Enable easy engagement

B) Suitable for big diameter thread

C) Easily available

D) Manufacturing cost is less

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

A) Steep taper cannot be produced

B) Taper length is limited to the movement of the top slide

C) Damages the centre drilled holes of the work

D) Only external taper can be turned

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

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

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

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

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

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

140. What does BIS stand for?

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

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

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

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

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

143. Select a suitable instrument for measuring angles?

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

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

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

145. How metric chasing dial differ from British chasing dial?

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

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

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

147. How the thread are formed in thread rolling?

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

148. What is the use of a sine bar?

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

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

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

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

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

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

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

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

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

153. Which method of threading is used in mass production?

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

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

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

155. What is the angle of saw tooth thread?

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

156. Which angle is ground on ACME threading tool?

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

157. 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)

158. 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) 60

B) 120

C) 150

D) 100

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

A) Locate and drive the work B) Protect the operator

C) Give good finish D) Protect the work

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

A) Face plate

B) Driving plate

C) Lathe carrier

D) Catch plate

161. Which method is used for turning steep taper?

A) Offset tail stock

B) Compound slide swivel

C) Taper turning attachment D) Form tool

162. What is the thread form cut by using chasers?

A) Internal square thread

B) External square thread

C) External and internal V - Thread

D) Trapezoidal thread

163. 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) 90T on driver and 127T on driven B) 127T on driver and 60T on driven

C) 60T on driver and 127T on driven D) 127T on driver and 90T on driven

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

A) 0.020 mm

B) 0.005 mm

C) 0.001 mm

D) 0.002 mm

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

A) 36.50 mm

B) 36.49 mm

C) 33.00 mm

D) 32.98 mm

166. How is the vernier height gauge generally specified?

A) Height of beam

B) Size of base

C) Thickness of beam

D) Width of beam