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KANAKAPURA**

Question Paper

Duration: 30 Mins

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ID: ITISKILL2895ST

Student Name: _____	Roll No: _____
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1. 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) 03-Apr
C) 07-Apr D) 03-Jul

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

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

3. Which angle is ground on ACME threading tool?

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

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

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

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

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

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

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

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

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

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

- A) Bond B) Grit

C) Grain

D) Structure

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

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

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

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

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

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

12. Which thread is used for general purpose fastening?

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

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

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

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

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

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

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

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

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

17. What is the angle of metric ACME thread

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

18. What is the disadvantage of chaser?

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

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

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

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

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

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

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

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

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

23. Which wheel is used for grinding tough materials?

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

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

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

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

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

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

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

27. What is the use of hand chaser?

- A) For making square thread
- B) Correcting and finishing a thread

- C) For production job
- D) To cut new thread

28. What is the purpose of using thread micrometer?

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

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

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

30. 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

31. What is the angle of ACME thread

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

32. 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) 60T on driver and 127T on driven
- B) 90T on driver and 127T on driven
- C) 127T on driver and 60T on driven
- D) 127T on driver and 90T on driven

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

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

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

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

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

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

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

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

37. Which is used to support hollows end jobs?

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

38. Which method is used for turning steep taper?

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

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

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

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

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

41. What is the angle of saw tooth thread?

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

42. Which device uses buttress thread?

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

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

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

44. 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) 120
- C) 100
- D) 50

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

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

46. 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) 40/150
- C) 50/120
- D) 30/120

47. 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) 60
- B) 50

C) 100

D) 120

48. What is the shape of buttress thread flank?

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

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

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

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

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

51. 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) 32.98 mm
- D) 33.00 mm

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

64. 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) Major dia of thread D) Depth of thread

65. 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) 50
C) 100 D) 60

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

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

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

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

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

- A) $\text{Pitch}/8$ B) $\text{Pitch}/2$
C) $\text{Pitch}/6$ D) $\text{Pitch}/4$

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

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

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

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

71. Which is the angle of buttress thread?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

92. Select a suitable instrument for measuring angles?

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

93. 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

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

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

95. 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) 100
- C) 25
- D) 50

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

- A) Structure
- B) Grade of bond

C) Grit size

D) Abrasive type

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

A) 0.001 mm

B) 0.020 mm

C) 0.002 mm

D) 0.005 mm

98. 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) 150

C) 100

D) 60

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

A) 5 Degree

B) 1 Degree

C) 1 Degree

D) 1 Degree

100. Convert 8 Degree 44 minutes into minutes?

A) 536

B) 524

C) 428

D) 424

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

A) In face plate

B) Angle plate

C) In between centres

D) In four jaw chuck

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

A) Checking 45 Degree and 60 Degree

B) Checking squareness

C) Checking flatness

D) Checking parallelism

103. What does BIS stand for?

A) Bureau of Indian standard

B) Bureau of Indian society

C) Bureau of international society

D) Bureau of international standard

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

A) Thread rolling

B) Thread chasers

C) Using dies

D) Thread milling

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

A) BSW thread

B) BSF thread

C) Worm thread

D) Square thread

106. 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

107. 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

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

A) Radius shape

B) V-shape

C) Square shape

D) Circular shape

109. Which is the smallest unit of angular measurement?

A) Minutes

B) Radian

C) Degree

D) Seconds

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

A) Suitable for big diameter thread

B) Manufacturing cost is less

C) Enable easy engagement

D) Easily available

111. 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) $0.335 \times \text{pitch}$

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

A) Gang mandrels

B) Stepped mandrels

C) Cone mandrels

D) Taper Shank mandrels

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

A) Heavy distortion due to heat

B) Dissimilar metals can be joined

C) The joint not suitable for thicker sections

D) It take more time for repairing

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

A) Face plate

B) Catch plate

C) Driving plate

D) Lathe carrier

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

A) Rack and pinion mechanism

B) Scroll and pinion mechanism

C) Lever and scroll mechanism

D) Rack and scroll mechanism

116. 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) 38.62
- B) 145.63
- C) 291.26
- D) 75

117. 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) $0.6304 \times 1/10$ Inch
- D) $0.6314 \times 1/10$ Inch

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- A) 0.081
- B) 0.083

- C) 0.084
- D) 0.082

127. How the thread are formed in thread rolling?

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

128. 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

129. 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) 60
- B) 50
- C) 100
- D) 80

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

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

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

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

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

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

133. 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) 7 mm
- D) 8 mm

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

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

135. How many carriers are available in a set?

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

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

- A) For accurate setting
- B) For provide power feed

C) To avoid damage to the centre drilled hole of the job
D) For good surface finish

C) Thread milling
D) Die head

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

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

138. 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 + Two depth
B) Core dia = Measurement over prisms + Height of prisms + Single depth
C) Core dia = Measurement over prisms + Height of prisms + Single depth of thread
D) Core dia = Measurement over prisms + Height of prisms + Single depth

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

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

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

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

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

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

142. 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

143. 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) 60
D) 150

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

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

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

- A) Thread rolling
B) Thread grinding

146. Which material is suitable for button die chaser?

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

147. What is the use of a sine bar?

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

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

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

149. How is the vernier height gauge generally specified?

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

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

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

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

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

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

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

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

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

154. Which is the form of Trapezoidal thread?

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

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

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

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

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

157. How many seconds is 1 Degree?

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

158. 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

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

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

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

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

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

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

162. Which method is non metallic threads are produced?

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

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

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

164. What is the use of BSW thread?

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

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

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

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

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