

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

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

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

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

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

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

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

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

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

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

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

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

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

7. 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  
C) 100
- B) 50  
D) 60

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

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

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

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

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

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

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

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

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

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

13. 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 60 teeth Driven 20 teeth  
C) Driver 20 teeth Driven 60 teeth
- B) Driver 90 teeth Driven 127 teeth  
D) Driver 127 teeth Driven 90 teeth

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

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

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

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

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

- A) 7 mm
- C) 8 mm

- B) 10 mm
- D) 12 mm

- A) Aluminium oxide
- C) Cemented carbide

- B) Silicon carbide
- D) Ceramic

17. What does BIS stand for?

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

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

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

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

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

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

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

21. 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) 50
- C) 100
- B) 60
- D) 120

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

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

23. Which thread is used for general purpose fastening?

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

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

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

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

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

26. Which wheel is used for grinding tough materials?

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

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

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

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

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

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

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

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

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

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

32. Select a suitable instrument for measuring angles?

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

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

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

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

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

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

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

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

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

**37.** 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) 100  
D) 60

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

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

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

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

**40.** 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

**41.** Which material is used for making nozzle for gas welding?

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

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

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

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

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

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

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

**45.** 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  
C) 120
- B) 150  
D) 60

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

- A) For easy thread cutting
- B) To get proper, crest, flat, root radius and profile

- C) To reduce labour  
D) To time saving

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

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

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

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

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

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

**50.** What is the thread depth of square thread SQ60x9?

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

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

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

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

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

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

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

**54.** What is the disadvantage of chaser?

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

**55.** What is the thread depth of square thread SQ60x9?

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

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

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

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

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

58. How many carriers are available in a set?

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

59. 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
- D) Core dia = Measurement over prisms ? Height of prisms ? Single depth of thread

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

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

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

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

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

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

63. How the thread are formed in thread rolling?

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

64. Which is the form of Trapezoidal thread?

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

65. 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

76. Which is the smallest unit of angular measurement?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

86. Which parameter of a thread is measured by three wire

method?

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

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

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

88. What is the angle of ACME thread

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

89. Which material is suitable for button die chaser?

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

90. What is the angle of saw tooth thread?

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

91. What is the angle of metric ACME thread

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

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

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

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

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

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

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

95. What is the use of a sine bar?

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

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

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

97. Which is the angle of buttress thread?

- A) 30 Degree
- C) 60 Degree

- B) 45 Degree
- D) 55 Degree

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

- A) 3.00 mm
- C) 1.5 mm

- B) 1.25 mm
- D) 2.25 mm

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

- A) Long taper can be produced
- C) Steep taper can be produced

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

100. Which method is used for turning steep taper?

- A) Compound slide swivel
- C) Taper turning attachment

- B) Offset tail stock
- D) Form tool

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

- A) Gang mandrels
- C) Cone mandrels

- B) Taper Shank mandrels
- D) Stepped mandrels

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

- A) Feed
- C) Depth of cut

- B) Material
- D) Cutting speed

103. 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) 50/120
- C) 40/150

- B) 40/120
- D) 30/120

104. 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
- C) 127T on driver and 90T on driven

- B) 127T on driver and 60T on driven
- D) 60T on driver and 127T on driven

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

- A) Collect chuck
- C) Combination chuck

- B) Magnetic chuck
- D) Hydraulic chuck

106. How many seconds is 1 Degree?

- A) 6000%
- C) 3600000%

- B) 36000%
- D) 360000%

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

- A) Cutting speed and rpm of job
- C) Cutting speed and feed

- B) Depth of cut and rpm
- D) Cutting speed time and index

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

- A) 15 Degree
- C) 30 Degree

- B) 60 Degree
- D) 45 Degree

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

- A) Length of datum surface
- C) Length of the rollers

- B) Distance between the centres of the rollers
- D) Total length of the sine bar

110. 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) 100
- C) 150

- B) 25
- D) 50

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

- A) 0.35
- C) 0.15

- B) 0.2
- D) 0.4

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

- A) Loading
- C) Glazing

- B) Grooving
- D) Dressing

113. What is the use of hand chaser?

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

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

114. What is the use of BSW thread?

- A) General purpose fastening
- C) Used in electrical appliances

- B) Fast movement
- D) Load fitting

115. 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) 50
- C) 100

- B) 150
- D) 60

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

- A) 0.081
- C) 0.084

- B) 0.082
- D) 0.083

- A) Forged steel
- C) Forged aluminium

- B) Forged copper
- D) Stainless steel

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

- A) 0.084
- C) 0.082

- B) 0.08
- D) 0.09

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

- A) 1 Degree
- C) 1 Degree

- B) 1 Degree
- D) 5 Degree

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

- A) Catch plate
- C) Face plate

- B) Lathe carrier
- D) Driving plate

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

- A) Square thread
- C) Knuckle thread

- B) Saw tooth thread
- D) V - thread

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

- A) Thread rolling
- C) Thread chasers

- B) Using dies
- D) Thread milling

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

- A)  $\text{depth} = 0.6134 \times \text{pitch}$
- C)  $\text{depth} = 0.6403 \times \text{pitch}$

- B)  $\text{depth} = 0.5 \times \text{pitch}$
- D)  $\text{depth} = 0.75 \times \text{pitch}$

120. Which device uses buttress thread?

- A) General purpose nut and bolt
- C) Screw jack

- B) Carpentry vice
- D) Lead screw of lathe

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

- A)  $0.6403 \times \text{pitch}$
- C)  $0.7 \times \text{pitch}$

- B)  $0.5 \times \text{pitch}$
- D)  $0.6134 \times \text{pitch}$

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

- A) Thread casting
- C) Thread milling

- B) Thread grinding
- D) Tapping

131. 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
- C) 291.26

- B) 38.62
- D) 145.63

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

- A) Backlite
- C) Vetrified

- B) Resinoid
- D) Rubber

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

- A) Gang mandrels
- C) Taper Shank mandrels

- B) Stepped mandrels
- D) Expansion stud mandrel

123. 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
- C) 150

- B) 100
- D) 60

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

- A) BSW thread
- C) Worm thread

- B) Square thread
- D) BSF thread

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

- A) Thread casting
- C) Thread milling

- B) Thread rolling
- D) Thread grinding

134. Which method is non metallic threads are produced?

- A) Thread casting
- C) Thread milling

- B) Thread chasing
- D) Thread grinding

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

- A)  $0.335 \times \text{pitch}$
- C)  $0.5 \times \text{pitch}$

- B)  $0.317 \times \text{pitch}$
- D)  $0.75 \times \text{pitch}$

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

- A) By braze welding
- C) By gas welding

- B) By tig welding
- D) By arc welding

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

- A)  $0.6403 \times \text{pitch}$

- B)  $0.6043 \times \text{pitch}$

C) 0.6431 x pitch

D) 0.6134 x pitch

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

A) Pitch/8

B) Pitch/4

C) Pitch/2

D) Pitch/6

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

A) Depth is 1/2 pitch

B) Depth is 1/4 pitch

C) Depth is equal to pitch

D) Depth is 3/4 pitch

**139.** Convert 8 Degree 44 minutes into minutes?

A) 524

B) 536

C) 424

D) 428

**140.** How is the vernier height gauge generally specified?

A) Height of beam

B) Size of base

C) Thickness of beam

D) Width of beam

**141.** 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

**142.** 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) 0.80 Inch

D) 0.83 Inch

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

A) Root diameter

B) Major diameter

C) Profile and pitch

D) Minor diameter

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

A) Minor dia of thread

B) Depth of thread

C) Major dia of thread

D) Pitch of the thread

**145.** 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) 5 Degree

C) 100 Degree

D) 28 Degree

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

A) Female centre

B) Tipped centre

C) Ball centre

D) Pipe centre

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

A) Worm and worm shaft

B) Bevel gearing

C) Crank and slotted link

D) Rack and pinion

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

A) Root diameter

B) Major diameter

C) Pitch

D) Minor diameter

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

A) Measure effective diameter

B) Measure the pitch of the thread

C) Measure minor diameter

D) Measure major diameter

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

A) External threads on taper can't produce

B) Only hand feed can be given

C) Taper length is limited

D) Taper turning is possible when work held between centre only

**151.** 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

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

A) Protractor head

B) Rule

C) Centre head

D) Square head

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

A) Trapezoidal thread

B) Internal square thread

C) External square thread

D) External and internal V - Thread

**154.** What is the purpose of using thread micrometer?

A) Measure pitch of the thread

B) Measure effective diameter

C) Measure major diameter

D) Measure minor diameter

**155.** 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) 120

C) 100

D) 50

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

- A) 63
- C) 120

- B) 30
- D) 100

C) 9.5 mm

D) 8.5 mm

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

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

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

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

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

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

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

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

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

- A) 9 mm
- B) 4.5 mm

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

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

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

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

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

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

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

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

166. 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