

Student Name: _____	Roll No: _____
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1. Which welding method is more suitable for joining dissimilar metals readily?

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

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

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

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

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

4. Which is the smallest unit of angular measurement?

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

5. What is the use of BSW thread?

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

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

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

7. 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 minor diameter of external thread | D) To measure the major diameter of internal thread |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

17. How can measure the minor diameter of a internal thread

accurately?

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

18. Which method is used for turning steep taper?

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

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

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

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

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

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

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

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

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

23. 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) Only external taper can be turned |
| C) Steep taper cannot be produced | D) Damages the centre drilled holes of the work |

24. 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 |

25. 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) 100 |
| C) 120 | D) 150 |

26. 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) 127T on driver and 60T on driven |
| C) 127T on driver and 90T on driven | D) 90T on driver and 127T on driven |

27. Select a suitable instrument for measuring angles?

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

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

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

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

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

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

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

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

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

32. 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 | B) 60 |
| C) 100 | D) 120 |

33. What does BIS stand for?

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

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

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

35. How many seconds is 1 Degree?

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

36. Which formula is used to find root width of a buttress

thread?

- | | |
|------------------|------------------|
| A) 0.5 x pitch | B) 0.317 x pitch |
| C) 0.335 x pitch | D) 0.125 x pitch |

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

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

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

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

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

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

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

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

41. Which wheel is used for grinding tough materials?

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

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

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

43. 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 70T, Driven 40T | D) Driver 30T, Driven 40T |

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

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

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

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

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

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

47. Which is used to support hollows end jobs?

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

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

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

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

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

50. Which material is suitable for button die chaser?

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

51. 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 90 teeth Driven 127 teeth | B) Driver 127 teeth Driven 90 teeth |
| C) Driver 20 teeth Driven 60 teeth | D) Driver 60 teeth Driven 20 teeth |

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

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

53. How is the vernier height gauge generally specified?

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

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

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

55. 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) 75 |
| C) 145.63 | D) 38.62 |

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

- A) 0.910 mm
C) 0.42 mm

- B) 1.35 mm
D) 1.23 mm

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

- A) Steep taper can be produced
C) Most suitable for duplicate taper work

- B) Thread on taper portion can be produced
D) Long taper can be produced

58. 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

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

- A) Structure
C) Abrasive type

- B) Grit size
D) Grade of bond

60. 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) For avoid catching the thread in each cut
D) Reduce the wear and tear of half nut

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

- A) Major diameter
C) Root diameter

- B) Pitch diameter
D) Minor diameter

62. Convert 8 Degree 44 minutes into minutes?

- A) 428
C) 524

- B) 424
D) 536

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

- A) 33.00 mm
C) 32.98 mm

- B) 36.49 mm
D) 36.50 mm

64. Which thread is used for general purpose fastening?

- A) BA
C) Unified

- B) BSF
D) BSW

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

- A) 60 mm
C) 70 mm

- B) 64 mm
D) 65.8 mm

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

- A) $DR/DN = TPI \text{ on lead screw} / TPI \text{ to cut}$

- C) $DR/DN = \text{Lead of head screw} / \text{Lead of work}$

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

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

67. Which is the angle of buttress thread?

- A) 45 Degree
C) 30 Degree

- B) 60 Degree
D) 55 Degree

68. 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
C) 6 times

- B) 3 times
D) 5 times

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

- A) $\text{depth} = 0.6403 \times \text{pitch}$
C) $\text{depth} = 0.75 \times \text{pitch}$

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

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

- A) Automobile industries
C) Pipe and pipe fittings

- B) General fastening
D) Load transmission

71. 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

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

- A) 03-Jul
C) 04-Jul

- B) 07-Apr
D) 03-Apr

73. Which is the form of Trapezoidal thread?

- A) BSW
C) ACME

- B) BSF
D) Metric

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

- A) Thread chasers
C) Thread rolling

- B) Thread milling
D) Using dies

75. 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

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

- A) Thread milling

- B) Thread grinding

C) Thread rolling	D) Thread casting	C) 30 Degree	D) 60 Degree
77. What is the depth of ACME thread of 1inch major diameter 6TPI? A) 0.082 C) 0.08		87. Which device uses buttress thread? A) Screw jack C) General purpose nut and bolt	
B) 0.084 D) 0.09		B) Carpentry vice D) Lead screw of lathe	
78. What is thread element that determine the direction of rotation on screw thread? A) Hand of thread C) Lead of thread		88. Why the thread chaser is used to form threads? A) For easy thread cutting C) To reduce labour	
B) Depth of thread D) Pitch of thread		B) To get proper, crest, flat, root radius and profile D) To time saving	
79. Which part is pivoted to the disc of vernier bevel protractor? A) Blade C) Stock		89. What is 1.25 stands for a metric thread designated as M12 x 1.25? A) Minor dia of thread C) Pitch of the thread	
B) Dial D) Disc		B) Major dia of thread D) Depth of thread	
80. What is the thread depth of square thread SQ60x9? A) 42 mm C) 18 mm		90. Which bonding material is not affected by water, acid or normal temperature? A) Backlite C) Vetrified	
B) 4.5 mm D) 9.0 mm		B) Rubber D) Resinoid	
81. Calculate the least count of V.B.P if 23 div on main scale is divided into 12 scale divisions A) 3 minutes C) 5 minutes		91. What type of thread can be produced by a die? A) External V - thread C) Internal square thread	
B) 4 minutes D) 2 minutes		B) External square thread D) Internal V - thread	
82. 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) 60		92. 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 C) Core dia = Measurement over prisms ? Height of prisms ? Single depth of thread	
B) 50 D) 100		B) Core dia = Measurement over prisms ? Height of prisms + Single depth D) Core dia = Measurement over prisms + Height of prisms ? Single depth	
83. Which mandrels is NOT used in between lathe centres? A) Stepped mandrels C) Taper Shank mandrels		93. Calculate the flat width of 10 mm pitch buttress thread? A) 1.25 mm C) 4.25 mm	
B) Gang mandrels D) Cone mandrels		B) 3.25 mm D) 2.25 mm	
84. What is the purpose of using thread micrometer? A) Measure major diameter C) Measure effective diameter		94. Which mandrel is used for machining similar part where internal diameter vary slightly? A) Taper Shank mandrels C) Expansion stud mandrel	
B) Measure pitch of the thread D) Measure minor diameter		B) Gang mandrels D) Stepped mandrels	
85. Which is the commonly used method to produce thread in nut? A) Thread casting C) Thread milling		95. What is removing dull grain in order to make grinding wheel sharp? A) Loading C) Glazing	
B) Tapping D) Thread grinding		B) Trueing D) Dressing	
86. Which angle is provided on the metric screw thread micrometer anvil? A) 47.5 Degree B) 55 Degree		96. What is the reason for providing buttress thread in	

carpentry vice?

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

97. How many carriers are available in a set?

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

98. 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
- B) Driver 40T, Driven 50
- C) Driver 30T, Driven 40
- D) Driver 50T, Driven 30

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

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

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

101. 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

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

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

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

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

104. What is the use of hand chaser?

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

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

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

106. What is the angle of metric ACME thread

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

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

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

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

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

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

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

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

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

111. 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 parallelism
- D) Checking flatness

112. What is the shape of buttress thread flank?

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

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

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

114. Which method is non metallic threads are produced?

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

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

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

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

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

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

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

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

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

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

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

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

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

121. 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 tig welding
- D) By arc welding

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

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

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

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

124. 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

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

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

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

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

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

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

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

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

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

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

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

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

131. 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

132. What is the angle of saw tooth thread?

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

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

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

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

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

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

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

136. How the thread are formed in thread rolling?

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

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

A) By vernier caliper
C) By screw thread micrometer

B) Using slip gauge pack
D) By three wire method

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

A) 0.125
C) 0.2

B) 0.128
D) 0.1

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

A) Pitch will changed
C) Difficult for catching

B) Thread will be damaged
D) Major diameter will changed

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

A) Taper turning is possible when work held between centre only
C) Taper length is limited

B) External threads on taper can't produce
D) Only hand feed can be given

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

A) For accurate marking
C) For good appearance

B) To check eccentricity
D) For accurate measuring

142. 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) 100
C) 150

B) 120
D) 60

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

A) Lathe carrier
C) Driving plate

B) Face plate
D) Catch plate

144. 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) Dressing

B) Grooving
D) Glazing

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

A) Major diameter
C) Root diameter

B) Pitch
D) Minor diameter

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

A) Grain
C) Bond

B) Grit
D) Structure

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

A) 2.5 mm
C) 3 mm

B) 5 mm
D) 4 mm

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

A) Oil
C) Water

B) Wet sand
D) Mica powder

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

A) Cutting speed
C) Material

B) Depth of cut
D) Feed

150. 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

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

A) 0.83 Inch
C) 0.84 Inch

B) 0.81 Inch
D) 0.80 Inch

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

A) Pitch
C) Major diameter

B) Minor diameter
D) Effective diameter

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

A) V - thread
C) ACME thread

B) Square thread
D) Saw - tooth thread

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

A) Female centre
C) Ball centre

B) Revolving centre
D) Insert type centre

155. What is the use of a sine bar?

A) To measure the diameter of the job
C) To measure the gap

B) To determine the angle of tapered job
D) To measure the length of a taper job

156. 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) 100 | B) 60 |
| C) 80 | D) 50 |

157. 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) $0.335 \times \text{pitch}$ |

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

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

159. 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) 5 Degree | D) 100 Degree |

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

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

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

A) Using taps and dies

B) Use single point cutting tool

C) Thread rolling

D) Thread grinding

162. Which angle is ground on ACME threading tool?

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

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

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

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

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

165. What is the angle of ACME thread

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

166. 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 |
| C) 8.5 mm | D) 9.5 mm |