

Duration: 60 Mins

Total Marks: 166

Q.ID: ITISKILL6644UU

1. Which is the smallest unit of angular measurement?

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

**Answer: A) Seconds**

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

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

**Answer: C) Enable easy engagement**

3. What is the purpose of using thread micrometer?

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

**Answer: B) Measure effective diameter**

4. What is the angle of saw tooth thread?

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

**Answer: A) 30 Degree**

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

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

**Answer: C) Vetrified**

6. How the thread are formed in thread rolling?

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

**Answer: B) Plastic deformation**

7. Which device uses buttress thread?

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

**Answer: D) Carpentry vice**

8. 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                      B) 60  
C) 120                      D) 150

**Answer: A) 100**

9. 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) 60  
C) 150                      D) 50

**Answer: B) 60**

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

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

**Answer: B) 6.75 mm**

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

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

**Answer: A) Effective diameter**

12. What is the angle of metric ACME thread

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

**Answer: C) 30 Degree**13. Calculate the amount of off-set if total length of job = 80 mm and  $\tan = 5$  Degree 45 minutes?

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

**Answer: C) 8 mm**

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

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

**Answer: A) Depth is 1/2 pitch**

15. Which is the angle of buttress thread?

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

**Answer: D) 45 Degree**

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

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

**Answer: D) Hand of thread**

**17.** 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

**Answer: A) 64 mm**

**18.** 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

**Answer: B) Correcting and finishing a thread**

**19.** Which wheel is used for grinding tough materials?

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

**Answer: B) Aluminium oxide**

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

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

**Answer: B) 29 Degree**

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

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

**Answer: C) V-shape**

**22.** How many carriers are available in a set?

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

**Answer: C) 10 numbers**

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

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

**Answer: D) 0.75 mm**

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

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

**Answer: B) In between centres**

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

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

**Answer: C) 52 mm**

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

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

**Answer: C) To measure the minor diameter of internal thread**

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

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

**Answer: B) Helix angle**

**28.** Which type thread is used in lathe lead screw?

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

**Answer: C) ACME**

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

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

**Answer: C) Steep taper can be produced**

**30.** 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)  $0.125 \times \text{pitch}$     D)  $0.335 \times \text{pitch}$

**Answer: C)  $0.125 \times \text{pitch}$**

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

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

**Answer: B) depth of buttress thread**

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

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

**Answer: B)  $0.6134 \times \text{pitch}$**

**33.** 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

**Answer: C) Pressure acts at one flank**

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

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

**Answer: A) Braze welding**

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

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

**Answer: B) 60 Degree**

36. Which is used to support hollows end jobs?

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

**Answer: D) Pipe centre**

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

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

**Answer: A) 0.1**

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

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

**Answer: B) Dial**

39. What is the use of BSW thread?

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

**Answer: D) General purpose fastening**

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

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

**Answer: C) Thread rolling**

41. 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
- B) Core dia = Measurement over prisms ? Height of prisms ? Single depth of thread
- C) Core dia = Measurement over prisms ? Height of prisms + Two depth
- D) Core dia = Measurement over prisms + Height of prisms ? Single depth

**Answer: B) Core dia = Measurement over prisms ? Height of prisms ? Single depth of thread**

42. Which material is suitable for button die chaser?

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

**Answer: D) Low strength material**

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

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

**Answer: A) Hydraulic chuck**

44. Which is the form of Trapezoidal thread?

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

**Answer: C) ACME**

45. 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) 28 Degree
- D) 1 Degree - 50 Degree

**Answer: B) 5 Degree**

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

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

**Answer: A) By arc welding**

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

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

**Answer: B) 0.020 mm**

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

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

**Answer: B) Surface plate**

49. What is the shape of buttress thread flank?

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

**Answer: D) One flank is 90 Degree and the other 45 Degree**

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

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

**Answer: C) Female centre**

**51.** What term indicate actual size of the abrasive grain?

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

**Answer: C) Grit size**

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

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

**Answer: D) 0.084**

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

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

**Answer: D) 127**

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

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

**Answer: B) Square thread**

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

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

**Answer: B) Job surface**

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

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

**Answer: D) 29 Degree**

**57.** 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

**Answer: B) Torch brazing**

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

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

**Answer: B) Vernier bevel protractor**

**59.** How is the 'length of sine bars' specified?

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

**Answer: C) Distance between the centres of the rollers**

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

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

**Answer: A) 4.5 mm**

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

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

**Answer: B) To check eccentricity**

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

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

**Answer: A) Pitch/8**

**63.** 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

**Answer: B) Form tool method**

**64.** 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 good surface finish
- C) For accurate setting
- D) For provide power feed

**Answer: A) To avoid damage to the centre drilled hole of the job**

**65.** What are the uses of B.S.P thread?

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

**Answer: B) Pipe and pipe fittings**

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

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

**Answer: D) More than one worm wheel and different dial**

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

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

**Answer: A) Profile and pitch**

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

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

**Answer: D) Major diameter**

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

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

**Answer: C) 90T on driver and 127T on driven**

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

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

**Answer: B) 4 minutes**

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

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

**Answer: A) 32.98 mm**

72. 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) 60
- D) 120

**Answer: A) 100**

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

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

**Answer: D) Thread rolling**

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

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

**Answer: B) The joint not suitable for thicker sections**

75. Which method is used for turning steep taper?

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

**Answer: C) Compound slide swivel**

76. Which method is non metallic threads are produced?

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

**Answer: B) Thread casting**

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

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

**Answer: C) External and internal V - Thread**

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

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

**Answer: A) Copper**

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

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

**Answer: D) Carriage**

80. 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

**Answer: A) Rack and pinion mechanism**

81. 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 60 teeth Driven 20 teeth
- D) Driver 20 teeth Driven 60 teeth

**Answer: A) Driver 90 teeth Driven 127 teeth**

82. 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)  $0.6134 \times \text{pitch}$

**Answer: A)  $0.6403 \times \text{pitch}$**

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

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

**Answer: D) Forged copper**

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

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

**Answer: A) Clamp type**

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

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

**Answer: B) By capillary action**

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

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

**Answer: C) Precision roller with slip gauge**

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

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

**Answer: B) 2.5 mm**

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

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

**Answer: D) Mica powder**

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

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

**Answer: A) Thread rolling**

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

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

**Answer: B) Lathe carrier**

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

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

**Answer: B) Cutting speed**

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

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

**Answer: D) To cut V-thread only**

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

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

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

**94.** 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) 120  
C) 100
- B) 150  
D) 60

**Answer: A) 120**

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

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

**Answer: A) 63**

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

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

**Answer: D) Dressing**

**97.** Which is main criteria to increase the tool life?

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

**Answer: C) Cutting speed**

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

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

**Answer: A) 0.15**

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

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

**Answer: A) 51.26 mm**

**100.** Which mandrels is NOT used in between lathe centres?

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

**Answer: D) Taper Shank mandrels**

**101.** Calculate the change gears necessary to cut a thread of

7/16" lead on a lathe with a lead screw of 4TPI?

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

**Answer: A) Driver 70T, Driven 40T**

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

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

**Answer: D) Measure minor diameter**

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

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

**Answer: B) By vernier caliper**

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

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

**Answer: A) 30 Degree**

**105.** 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      B) 30/120  
C) 40/150      D) 40/120

**Answer: D) 40/120**

**106.** 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      B) 80  
C) 60      D) 100

**Answer: B) 80**

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

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

**Answer: C) V - thread**

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

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

**Answer: C) 60 Degree**

**109.** 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) Only hand feed can be given      D) Taper length is limited

**Answer: B) Taper turning is possible when work held between centre only**

**110.** 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) 38.62      D) 145.63

**Answer: A) 75**

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

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

**Answer: A) Protractor head**

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

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

**Answer: B) 0.083**

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

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

**Answer: A) To determine the angle of tapered job**

**114.** 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

**Answer: A) External V - thread**

**115.** 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) 4.5 mm      D) 8.5 mm

**Answer: C) 4.5 mm**

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

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

**Answer: B) Stepped mandrel**

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

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

**Answer: A) 1 Degree**

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

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

**Answer: A) 1.25 mm**

**119.** 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) 50  
C) 100                              D) 60

**Answer: C) 100**

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

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

**Answer: D) 2.25 mm**

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

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

**Answer: A) Tapping**

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

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

**Answer: C) Cutting speed time and index**

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

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

**Answer: B) By using slip gauge and precision rollers**

**124.** 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)  $0.6314 \times 1/10$  Inch      D)  $0.6304 \times 1/10$  Inch

**Answer: A)  $0.6403 \times 1/10$  Inch**

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

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

**Answer: A) BSW**

**126.** Which is the method to produce accurate internal thread?

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

**Answer: C) Thread milling**

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

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

**Answer: C) Height of beam**

**128.** 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

**Answer: A) 1.35 mm**

**129.** What does BIS stand for?

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

**Answer: C) Bureau of Indian standard**

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

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

**Answer: C) depth =  $0.75 \times$  pitch**

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

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

**Answer: A) V - thread**

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

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

**Answer: D)  $DR/DN =$  Leads of screw to be cut X No. Of threads per inch of lead screw**

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

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

**Answer: D)  $0.75 \times$  pitch**

**134.** Calculate the gear ratio to cut a 1/4 inch lead on a lathe



**Answer: B) Pitch of the thread**

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

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

**Answer: D)  $0.5 \times \text{pitch}$**

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

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

**Answer: C) Loading**

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

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

**Answer: B)  $0.317 \times \text{pitch}$**

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

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

**Answer: B) Checking 45 Degree and 60 Degree**

**156.** 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) 50
- C) 150
- D) 100

**Answer: B) 50**

**157.** Select a suitable instrument for measuring angles?

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

**Answer: D) Vernier bevel protractor**

**158.** Which thread is recommended for pipe and pipe fittings?

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

**Answer: C) BSP thread**

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

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

**Answer: D) Bond**

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

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

**Answer: C) Worm and worm shaft**

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

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

**Answer: D) 4**

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

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

**Answer: A) Collect chuck**

**163.** 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) 6 times
- C) 5 times
- D) 3 times

**Answer: A) 4 times**

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

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

**Answer: A) V-Thread**

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

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

**Answer: D) Thread will be damaged**

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

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

**Answer: D) 1.5 mm**