

Duration: 30 Mins

Total Marks: 166

Q.ID: ITISKILL7470GQ

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

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

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

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

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

**Answer: B) Effective diameter**

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

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

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

4. What is the use of hand chaser?

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

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

5. Which device uses buttress thread?

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

**Answer: C) Carpentry vice**

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

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

**Answer: C) Lathe carrier**

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

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

**Answer: A) Thread rolling**

8. 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) 30/120  
 B) 50/120  
 C) 40/150  
 D) 40/120

**Answer: D) 40/120**

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

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

**Answer: B) By vernier caliper**

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

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

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

11. Which method is used for turning steep taper?

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

**Answer: C) Compound slide swivel**

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

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

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

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

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

**Answer: A) 52 mm**

14. Which is the smallest unit of angular measurement?

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

**Answer: A) Seconds**

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

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

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

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

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

**Answer: C) 4**

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

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

**Answer: C) Vetrified**

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

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

**Answer: B) Torch brazing**

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

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

**Answer: B) Forged copper**

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

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

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

21. Which angle is ground on ACME threading tool?

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

**Answer: D) 29 Degree**

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

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

**Answer: D) ACME**

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

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

**Answer: A) Locate and drive the work**

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

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

**Answer: B) Form tool method**

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

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

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

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

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

**Answer: B) By arc welding**

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

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

**Answer: C) 1.35 mm**

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

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

**Answer: D) Protractor head**

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

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

**Answer: A) 8 mm**

30. 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  
C) 120
- B) 60  
D) 50

**Answer: A) 100**

31. 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

**Answer: D) 0.020 mm**

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

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

**Answer: A) 32.98 mm**

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

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

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

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

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

**Answer: D) Taper Shank mandrels**

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

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

**Answer: B) In between centres**

**36.** 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

**Answer: D) 0.1**

**37.** 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) 50    B) 100  
C) 150    D) 25

**Answer: A) 50**

**38.** 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**

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

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

**Answer: A) To check eccentricity**

**40.** 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) 100  
C) 150    D) 60

**Answer: B) 100**

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

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

**Answer: B) Thread casting**

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

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

**Answer: B) Hand of thread**

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

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

**Answer: A) 2.5 mm**

**44.** 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**

**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) 120    B) 100  
C) 60    D) 150

**Answer: A) 120**

**46.** What is the formula to find out core diameter of external thread by using prisms and micrometer?

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

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

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

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

**Answer: D) Pipe centre**

**48.** 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-Jul  
C) 07-Apr    D) 03-Apr

**Answer: C) 07-Apr**

**49.** 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 major diameter of internal thread      D) To measure the minor diameter of internal thread

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

**50.** What is the use of BSW thread?

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

**Answer: D) General purpose fastening**

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

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

**Answer: C) 51.26 mm**

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

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

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

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

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

**Answer: C) 1.5 mm**

**54.** 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) 150  
C) 50      D) 60

**Answer: D) 60**

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

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

**Answer: C) Copper**

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

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

**Answer: D) Height of beam**

**57.** 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 three wire method      D) By screw thread micrometer

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

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

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

**Answer: C) 4 minutes**

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

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

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

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

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

**Answer: C) Mica powder**

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

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

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

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

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

**Answer: A) Dial**

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

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

**Answer: B) Hydraulic chuck**

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

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

**Answer: C) Driver 70T, Driven 50**

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

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

**Answer: D) 0.15**

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

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

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

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

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

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

68. 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) 60  
C) 80                                  D) 100

**Answer: C) 80**

69. How many seconds is 1 Degree?

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

**Answer: D) 360000%**

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

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

**Answer: D) 0.84 Inch**

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

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

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

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

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

**Answer: A) Female centre**

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

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

**Answer: B) 6.75 mm**

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

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

**Answer: D) Clamp type**

75. Which thread is used for general purpose fastening?

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

**Answer: D) BSW**

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

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

**Answer: A) 0.75 mm**

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

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

**Answer: C) Thread rolling**

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

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

**Answer: B) Pitch/8**

79. What is the angle of metric ACME thread

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

**Answer: C) 30 Degree**

80. What does BIS stand for?

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

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

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

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

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

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

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

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

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

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

**Answer: C) 60 Degree**

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

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

**Answer: D) Vernier bevel protractor**

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

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

**Answer: D) Pitch diameter**

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

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

**Answer: C) Expansion stud mandrel**

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

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

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

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

- A) depth = 0.5 x pitch          B) depth = 0.75 x pitch  
C) depth = 0.6134 x pitch      D) depth = 0.6403 x pitch

**Answer: B) depth = 0.75 x pitch**

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

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

**Answer: C) Profile and pitch**

**90.** 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

**Answer: C) By capillary action**

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

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

**Answer: B) BSP thread**

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

- A) To reduce labour              B) To time saving

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

**Answer: D) To get proper, crest, flat, root radius and profile**

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

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

**Answer: A) Stepped mandrel**

**94.** Which is the angle of buttress thread?

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

**Answer: B) 45 Degree**

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

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

**Answer: A)  $0.75 \times \text{pitch}$**

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

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

**Answer: A) Cutting speed**

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

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

**Answer: C) 0.084**

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

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

**Answer: A) Measure minor diameter**

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

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

**Answer: B) 4.5 mm**

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

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

**Answer: D) Collect chuck**

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

- A) Cemented carbide                  B) Aluminium oxide

- C) Silicon carbide                      D) Ceramic

**Answer: B) Aluminium oxide**

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

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

**Answer: D) 29 Degree**

**103.** What is the angle of saw tooth thread?

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

**Answer: B) 30 Degree**

**104.** Which is the form of Trapezoidal thread?

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

**Answer: C) ACME**

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

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

**Answer: B) 10 numbers**

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

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

**Answer: D) 64 mm**

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

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

**Answer: A) Surface plate**

**108.** 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) Reduce the wear and tear of half nut      D) For improve the productivity

**Answer: B) For avoid catching the thread in each cut**

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

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

**Answer: A) Cutting speed**

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

- A) To cut square thread only      B) To cut V-thread only

- C) To cut trapezoid thread only      D) To cut knuckle thread only

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

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

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

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

**112.** 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 60 teeth Driven 20 teeth  
C) Driver 20 teeth Driven 60 teeth      D) Driver 127 teeth Driven 90 teeth

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

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

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

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

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

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

**Answer: B) 30 Degree**

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

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

**Answer: B) 524**

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

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

**Answer: D) Measure effective diameter**

**117.** 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) 100  
C) 50    D) 120

**Answer: A) 60**

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

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

**Answer: A) 1.25 mm**

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

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

**Answer: D) Thread milling**

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

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

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

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

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

**Answer: C) Braze welding**

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

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

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

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

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

**Answer: A) V - thread**

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

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

**Answer: C) 2.25 mm**

**125.** 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) Glazing
- C) Loading
- D) Dressing

**Answer: C) Loading**

**126.** 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**

**127.** What is the schedule of lubrication for lathe bed?

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

**Answer: D) Daily**

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

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

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

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

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

**Answer: C) V-Thread**

**130.** 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) 100
- C) 50
- D) 60

**Answer: B) 100**

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

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

**Answer: B) Thread rolling**

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

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

**Answer: B) Major diameter**

**133.** 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) (2/3)
- D) (1/2)

**Answer: D) (1/2)**

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

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

**Answer: C) Carriage**

**135.** 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)  $0.125 \times \text{pitch}$                       D)  $0.5 \times \text{pitch}$

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

**136.** 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)  $0.125 \times \text{pitch}$**

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

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

**Answer: C) 0.083**

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

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

**Answer: D) Helix angle**

**139.** 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**

**140.** 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) 90T on driver and 127T on driven  
C) 60T on driver and 127T on driven      D) 127T on driver and 90T on driven

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

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

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

**Answer: D) V - thread**

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

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

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

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

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

**Answer: B) Grit size**

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

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

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

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

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

**Answer: B) Vernier bevel protractor**

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

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

**Answer: A) Tapping**

**147.** 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) 5 times  
C) 3 times                                      D) 6 times

**Answer: A) 4 times**

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

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

**Answer: C) Thread rolling**

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

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

**Answer: D) Bond**

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

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

**Answer: C) V-shape**

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

- A) 63    B) 120  
C) 30    D) 100

**Answer: A) 63**

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

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

**Answer: B) Job surface**

**153.** 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

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

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

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

**Answer: B) 4.5 mm**

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

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

**Answer: B) Enable easy engagement**

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

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

**Answer: A) 4.5 mm**

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

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

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

**158.** How the thread are formed in thread rolling?

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

**Answer: D) Plastic deformation**

**159.** How to measure the diameter of the small end of a

external taper precisely?

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

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

**160.** Which method is non metallic threads are produced?

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

**Answer: D) Thread casting**

**161.** 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) 75
- C) 145.63
- D) 291.26

**Answer: B) 75**

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

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

**Answer: B) Dressing**

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

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

**Answer: B) 127**

**164.** Which material is suitable for button die chaser?

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

**Answer: C) Low strength material**

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

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

**Answer: A) 60 Degree**

**166.** 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

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