

C) Lead = Pitch D) Lead = 1/2 pitch

Answer: A) Lead = No. start x pitch

16. What is the purpose of change gear train in centre lathe?

- A) Connecting lead screw to changing dial B) Connecting quick change gear box to lead screw
C) Connecting fixed stud gear to quick change gear box D) Connecting spindle gear to fixed stud gear

Answer: C) Connecting fixed stud gear to quick change gear box

17. What is the term of thread the advancement of mating part in one complete rotation?

- A) Lead B) Depth
C) Helix angle D) Pitch

Answer: A) Lead

18. What is the ratio between the pitch diameter and number of teeth of gear?

- A) Addendum B) Tooth thickness
C) Module D) Dedendum

Answer: C) Module

19. What is the name of last member in a simple gear train?

- A) Driven B) Reversing gear
C) Driver D) Idler

Answer: A) Driven

20. What will be the effect in helix angle if diameter changes for a given lead?

- A) No change in helix angle if diameter increases B) Diameters decreases helix angle increases
C) No change in helix angle if diameter decreases D) Diameters decreases helix angle decreases

Answer: B) Diameters decreases helix angle increases

21. What is the angle of saw tooth thread?

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

Answer: A) 30 Degree

22. Calculate the change gear to cut 8 mm pitch on a work having a lead screw of 4 mm pitch gear 20 to 120 teeth by 5 teeth range

- A) Driver 50 teeth Driven 60 teeth B) Driver 80 teeth Driven 25 teeth
C) Driver 60 teeth Driven 35 teeth D) Driver 40 teeth Driven 20 teeth

Answer: D) Driver 40 teeth Driven 20 teeth

23. Calculate pitch diameter of M16 x 2 mm square thread?

A) 16 mm B) 15.5 mm

C) 14 mm D) 15 mm

Answer: D) 15 mm

24. What is the meaning of M24 in M 24 x 3 single start thread?

- A) Depth of thread B) Major dia of thread
C) Core dia of thread D) Effective dia of thread

Answer: B) Major dia of thread

25. What is the nose cutter width of the square threads tool?

- A) 0.5 x Pitch B) Pitch / 0.5
C) 2 x Pitch D) equal to pitch

Answer: A) 0.5 x Pitch

26. What is the term the distance from a point on thread to the corresponding point on next thread?

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

Answer: C) Pitch

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

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

Answer: C) 2.25 mm

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

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

Answer: A) 0.125 x pitch

29. What does Sq 60 x 9 IS 4694-1968 means?

- A) Square Thread 60 mm dia, 9 mm pitch B) Buttress thread 60 mm dia x 9 mm pitch
C) Worm thread 60 mm dia x 9 mm pitch D) Acme thread 60 mm dia x 9 mm pitch

Answer: A) Square Thread 60 mm dia, 9 mm pitch

30. What is the depth of 0.5 inch BSW 13TPI single start thread?

- A) 0.025" B) 0.049"
C) 0.082" D) 0.038"

Answer: B) 0.049"

31. What is the purpose of Square thread?

- A) General fastening B) For clamping
C) To transmit power D) To make adjustment

Answer: C) To transmit power

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

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

Answer: D) 1.25 mm

33. Which parameter will decide the driver and driven gear ratio to cut thread on lathe?

- A) Major dia of work
- B) Angle of thread
- C) Pitch
- D) Root dia of work

Answer: C) Pitch

34. Where the knuckle threads are used?

- A) Screw jack
- B) Dead screw of lathe
- C) Carpentry vice
- D) Railway carriage couplings

Answer: D) Railway carriage couplings

35. Which type of thread have higher mechanical advantage?

- A) V- thread
- B) Acme thread
- C) Square thread
- D) Buttress thread

Answer: C) Square thread

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

- A) Pitch/2
- B) Pitch/4
- C) Pitch/8
- D) Pitch/3

Answer: C) Pitch/8

37. What is the advantage of using idler gear in simple gear train?

- A) Change the speed
- B) Does not affect gear ratio
- C) Affect gear ratio
- D) Easy to engage

Answer: B) Does not affect gear ratio

38. Which type of thread is used in lathe head screw?

- A) Knuckle thread
- B) Square thread
- C) Buttress thread
- D) Acme thread

Answer: D) Acme thread

39. What is the relationship between pitch and lead of a single start thread?

- A) Lead is 1/4 pitch
- B) Lead is twice the pitch
- C) Lead is half the pitch
- D) Lead is equal to pitch

Answer: D) Lead is equal to pitch

40. What is the formula for pitch diameter of thread?

- A) Major diameters - 2 depth
- B) Major diameters - single depth
- C) Major diameters - minor diameter
- D) Major diameter - Pitch diameter

Answer: B) Major diameters - single depth

41. Calculate the pitch diameter of M 36 x 4 mm square thread?

- A) 35 mm
- B) 33 mm
- C) 32 mm
- D) 34 mm

Answer: D) 34 mm

42. What is the gear ratio if the lathe constant value is one?

- A) Two
- B) One
- C) Six
- D) Three

Answer: B) One

43. Which of the following used buttress thread?

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

Answer: D) Carpentry vice

44. What is the formula to calculate the core dia of the square thread?

- A) Major dia - 2 x depth
- B) Major dia - Depth of thread
- C) Major dia - minor dia
- D) Major dia - Pitch dia

Answer: A) Major dia - 2 x depth

45. How many number of teeth gear is used to as translating gear to cut metric thread on British lathe?

- A) 100
- B) 135
- C) 127
- D) 140

Answer: C) 127

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

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

Answer: B) 6.75 mm

47. Which type of trapezoidal thread is used in places there motion is to be transmitted between shafts at right angle?

- A) Acme thread
- B) Worm thread
- C) Buttress thread
- D) Saw-tooth thread

Answer: B) Worm thread

48. Which formula to be used to find depth of buttress thread?

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

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

49. Calculate change gears to cut a three start thread having a pitch of 1.5 mm; the lead screw has a pitch of 6 mm.

- A) Driver 50 teeth, Driven 100 teeth B) Driver 60 teeth, Driven 50 teeth
C) Driver 45 teeth, Driven 60 teeth D) Driver 30 teeth, Driven 70 teeth

Answer: C) Driver 45 teeth, Driven 60 teeth

50. Which one is the angle of buttress thread?

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

Answer: C) 45 Degree

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

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

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

52. Which part of a lathe is used to catch thread quickly?

- A) Tool post B) Cross - slide
C) Chasing dial D) Top slide

Answer: C) Chasing dial

53. What type of thread is used in screw jack machine?

- A) V-thread B) Buttress thread
C) Acme thread D) Square thread

Answer: D) Square thread

54. What is the name of first member in a simple gear train?

- A) Idler B) Driver
C) Driven D) Reversible gear

Answer: B) Driver

55. How much angle is to be added for lead angle of a square thread as clearance to the helix angle?

- A) 1 Degree 50 Minutes B) 1 Degree 30 Minutes
C) 1 Degree 45 Minutes D) 1 Degree 55 Minutes

Answer: B) 1 Degree 30 Minutes

56. What will be the effect in helix angle if lead changes for a given diameter work?

- A) Lead decreases helix angle decreases B) Helix angle have no change when lead decreases
C) Lead decreases helix angle increases D) Helix angle have no change when lead increases

Answer: A) Lead decreases helix angle decreases

57. What is the included angle of acme thread?

- A) 30 Degree B) 29 Degree
C) 45 Degree D) 55 Degree

Answer: B) 29 Degree

58. Where multistart threads are used?

- A) For quick transmission B) For general fastening
C) For easy alignment D) For easy engagement

Answer: A) For quick transmission

59. What does BIS stand for?

- A) Bureau of Indian Standard B) Bureau of International Standard
C) Bureau of International Society D) Bureau of Indian Society

Answer: A) Bureau of Indian Standard