

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

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

18. Calculate the change gear to cut 6 mm pitch on a work having a lead screw of 5 mm pitch. Gears available from 20 to 120 teeth by 5 teeth range.

- A) Driver 60 driven 50
- B) Driver 100 teeth driven 25 teeth
- C) Driver 85 teeth driven 60 teeth
- D) Driver 40 driven 20

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

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

20. 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 mm
- D) 9.5 mm

21. Where the knuckle threads are used?

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

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

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

23. Which type of thread have higher mechanical advantage?

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

24. What is the angle of saw tooth thread?

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

25. Calculate pitch diameter of f 24 x 3 mm square thread?

- A) 24 mm
- B) 22.5 mm
- C) 21.5 mm
- D) 21 mm

26. What is the angle of BSW thread?

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

27. What is the purpose of idler gear in simple gear train?

- A) Increase spindle speed
- B) Reduce gear ratio

C) Reduce spindle speed

D) Transmit power between driver and driven gears

28. 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) Diameters decreases helix angle decreases
- D) No change in helix angle diameter decreases

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

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

30. How many numbers of gears having in a simple gear train?

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

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

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

32. 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 60 teeth Driven 35 teeth
- B) Driver 40 teeth Driven 20 teeth
- C) Driver 80 teeth Driven 25 teeth
- D) Driver 50 teeth Driven 60 teeth

33. What is the lead of M 10 x 1.5 double start thread?

- A) 3 mm
- B) 2 mm
- C) 3.5 mm
- D) 4 mm

34. 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 55 Minutes
- D) 1 Degree 45 Minutes

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

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

36. Which one is the angle of buttress thread?

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

37. 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 45 teeth, Driven 60 teeth
B) Driver 50 teeth, Driven 100 teeth
C) Driver 60 teeth, Driven 50 teeth
D) Driver 30 teeth, Driven 70 teeth

38. What is the lead of M 24 x 3.5 triple start thread?

- A) 12.8 mm
B) 8.5 mm
C) 3.5 mm
D) 10.5 mm

39. What is the included angle of acme thread?

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

40. What is the relation between pitch and lead in multistart thread?

- A) Lead = Pitch
B) Lead = No. start x pitch
C) Lead = 1/2 pitch
D) Lead = 1/3 x pitch

41. What does BIS stands for?

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

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

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

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

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

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

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

45. Calculate the pitch diameter of M 64 x 6 mm square thread?

- A) 60 mm
B) 58 mm
C) 61 mm
D) 62 mm

46. Which formula is used to find crest 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

47. What is the shape of buttress thread flank?

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

48. What is the purpose of Square thread?

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

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

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

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

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

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

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

52. Which thread has only one helical formation?

- A) Double start
B) Single start
C) Quadrapple
D) Triple start

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

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

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

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

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

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

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

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

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

- A) 2.25 mm
B) 1.25 mm

C) 4.25 mm

D) 3.25 mm

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

A) Pitch/4

B) Pitch/8

C) Pitch/2

D) Pitch/3

59. Which of the following used buttress thread?

A) Screw jack

B) Carpentry vice

C) Lead screw of lathe

D) General purpose nut and bolt
