ITI Quiz - 10-Feb-2026 02:46 PM

Q. ID: ITISKILL0066GO

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Student: GN uma
Score: 26/50 (52.00%)

Code: 6055

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

A) Driven | **B) Driver (Correct)**
C) Idler | D) Reverible gear

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

A) Driver | B) Idler
C) Driven | D) Reversing gear (Incorrect)

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

A) 2 | **B) 3 (Correct)**
C) 4 | D) 5

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

A) Pitch/2 | B) Pitch/3
C) Pitch/4 | **D) Pitch/8 (Correct)**

5. What is the shape of buttress thread flank?

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

6. What does BIS stands for?

A) Bureau of International Standard | **B) Bureau of Indian Standard (Correct)**
C) Bureau of International Society | D) Bereau of Indian Society

7. Which one is the angle of buttress thread?

A) 30 Degree | **B) 45 Degree (Correct)**
C) 55 Degree | D) 60 Degree

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

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

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

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

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

A) 0.5 x pitch | B) 0.6134 x pitch
C) 0.6403 x pitch (Incorrect) | **D) 0.75 x pitch**

11. 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 (Incorrect)
C) Acme thread 60 mm dia x 9 mm pitch | D) Worm thread 60 mm dia x 9 mm pitch

12. Which thread has only one helical formation?

A) Single start | B) Double start
C) Triple start (Incorrect) | D) Quadrapple

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

A) Core dia of thread | **B) Major dia of thread (Correct)**
C) Effective dia of thread | D) Depth of thread

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

A) 3.5 mm | B) 8.5 mm
C) 10.5 mm (Correct) | D) 12.8 mm

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

A) 2 mm | **B) 3 mm (Correct)**
C) 3.5 mm | D) 4 mm

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

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

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

A) Tooth thickness | **B) Module (Correct)**
C) Dedendum | D) Addendum

18. What is the included angle of acme thread?

A) 55 Degree | B) 45 Degree (Incorrect)
C) 30 Degree | **D) 29 Degree**

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

A) Acme thread | B) Buttress thread
C) Knuckle thread (Incorrect) | D) Square thread

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

A) 1 Degree 55 Minutes (Incorrect) | B) 1 Degree 50 Minutes
C) 1 Degree 45 Minutes | **D) 1 Degree 30 Minutes**

21. Which type of thread have higher mechanical advantage?

A) V- thread | B) Acme thread
C) Square thread (Correct) | D) Buttress thread

22. 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 (Correct) | D) Minor diameter

23. Which method of multi-start thread cutting is depends upon the graduations marked on the dial and the number of teeth in worm wheel?

A) Thread chasing dial method (Correct) | B) Method by moving the top slide
C) Method using slotted face plate | D) Dividing the first drive method

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

A) Acme thread | B) Buttress thread
C) Saw-tooth thread (Incorrect) | **D) Worm thread**

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

A) Pitch | B) Depth
C) Helix angle (Incorrect) | **D) Lead**

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

A) Connecting spindle gear to fixed stud gear | **B) Connecting fixed stud gear to quick change gear box (Correct)**
C) Connecting quick change gear box to lead screw | D) Connecting lead screw to changing dial

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

A) Reduce gear ratio (Incorrect) | **B) Transmit power between driver and driven gears**
C) Reduce spindle speed | D) Increase spindle speed

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

A) Major dia of work | **B) Pitch (Correct)**
C) Root dia of work | D) Angle of thread

29. 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 40 driven 20 (Incorrect)
C) Driver 85 teeth driven 60 teeth | D) Driver 100 teeth driven 25 teeth

30. 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 40 teeth Driven 20 teeth (Correct) | B) Driver 50 teeth Driven 60 teeth
C) Driver 80 teeth Driven 25 teeth | D) Driver 60 teeth Driven 35 teeth

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

A) Affect gear ratio | **B) Does not affect gear ratio**
C) Change the speed (Incorrect) | D) Easy to engage

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

A) One | B) Two
C) Three (Incorrect) | D) Six

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

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

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

A) 1.25 mm (Correct) | B) 2.25 mm
C) 3.25 mm | D) 4.25 mm

35. Which of the following used buttress thread?

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

36. 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 (Incorrect)

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

A) 4.75 mm
B) 5.75 mm
C) 6.75 mm
D) 7.75 mm (Incorrect)

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

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

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

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

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

A) 0.025" (Incorrect)
B) 0.038"
C) 0.049"
D) 0.082"

41. 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 (Correct)
B) Driver 60 teeth, Driven 50 teeth
C) Driver 30 teeth, Driven 70 teeth
D) Driver 50 teeth, Driven 100 teeth

42. Where multistart threads are used?

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

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

A) 21 mm
B) 21.5 mm (Incorrect)
C) 22.5 mm
D) 24 mm

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

A) 14 mm
B) 15 mm (Correct)
C) 15.5 mm
D) 16 mm

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

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

46. Find the lead of a 2 start thread having pitch 1.5 mm?

A) 1.50 mm
B) 3.00 mm (Correct)
C) 4.50 mm
D) 6.00 mm

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

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

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

A) 100 (Incorrect)
B) 127
C) 140
D) 135

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

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

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

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