

Student: Akshay  
Score: 27/59 (45.76%)

Code: 0010

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

- A) Driven (Incorrect)      B) Driver  
C) Idler      D) Reversible 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 is the angle of saw tooth thread?

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

7. What does BIS stands for?

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

8. Which one is the angle of buttress thread?

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

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

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

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

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

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

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

12. 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

13. Which thread has only one helical formation?

- A) Single start      B) Double start  
C) Triple start (Incorrect)      D) Quadruple

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

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

15. 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      D) 12.8 mm (Incorrect)

16. 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

17. How multi start threads are specified?

- A) By stating dia and pitch      B) By stating dia and angle of thread  
C) By stating core dia and pitch      D) By stating dia, pitch, and no. of start (Correct)

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

- A) Major diameters - single depth (Correct)      B) Major diameters - 2 depth

C) Major diameters - minor diameter  
D) Major diameter - Pitch diameter

19. 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

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

- A) Tooth thickness (Incorrect)  
B) **Module**  
C) Dedendum  
D) Addendum

21. Where the knuckle threads are used?

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

22. What is the included angle of acme thread?

- A) 55 Degree  
B) 45 Degree  
C) 30 Degree  
D) **29 Degree (Correct)**

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

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

24. 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  
B) 1 Degree 50 Minutes  
C) 1 Degree 45 Minutes  
D) **1 Degree 30 Minutes (Correct)**

25. What is the angle of BSW thread?

- A) 60 Degree (Incorrect)  
B) **55 Degree**  
C) 29 Degree  
D) 45 Degree

26. Which type of thread have higher mechanical advantage?

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

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

- A) Depth (Incorrect)  
B) Effective diameter  
C) **Pitch**  
D) Minor diameter

28. 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**  
B) Method by moving the top slide

C) Method using slotted face plate  
D) Dividing the first drive method (Incorrect)

29. 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**

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

- A) Pitch  
B) Depth  
C) Helix angle  
D) **Lead (Correct)**

31. 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

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

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

33. 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

34. 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  
C) Driver 85 teeth driven 60 teeth (Incorrect)  
D) Driver 100 teeth driven 25 teeth

35. 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**  
B) Driver 50 teeth Driven 60 teeth  
C) Driver 80 teeth Driven 25 teeth  
D) Driver 60 teeth Driven 35 teeth (Incorrect)

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

- A) Affect gear ratio  
B) **Does not affect gear ratio (Correct)**

C) Change the speed      D) Easy to engage

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

- A) **One (Correct)**      B) Two  
C) Three      D) Six

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

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

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

- A) **1.25 mm**      B) 2.25 mm  
C) 3.25 mm      D) 4.25 mm (Incorrect)

40. Which of the following used buttress thread?

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

41. 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)

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

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

43. What is the purpose of Square thread?

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

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

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

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

- A) **4.5 mm (Correct)**      B) 9.5 mm  
C) 9 mm      D) 8.5 mm

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

- A) Lead is twice the pitch (Incorrect)      B) Lead is half the pitch

C) **Lead is equal to pitch**      D) Lead is 1/4 pitch

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

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

48. 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 60 teeth, Driven 50 teeth (Incorrect)  
C) Driver 30 teeth, Driven 70 teeth      D) Driver 50 teeth, Driven 100 teeth

49. Where multistart threads are used?

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

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

- A) 21 mm      B) 21.5 mm  
C) **22.5 mm (Correct)**      D) 24 mm

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

- A) 14 mm      B) **15 mm**  
C) 15.5 mm (Incorrect)      D) 16 mm

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

- A) 32 mm      B) 33 mm (Incorrect)  
C) **34 mm**      D) 35 mm

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

- A) 58 mm      B) 60 mm (Incorrect)  
C) **61 mm**      D) 62 mm

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

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

55. 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

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

- A) **0.5 x Pitch**      B) equal to pitch (Incorrect)

C) Pitch / 0.5

D) 2 x Pitch

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

A) 100

**B) 127 (Correct)**

C) 140

D) 135

58. 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

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

A) Lead decreases helix angle increases (Incorrect)

**B) Lead decreases helix angle decreases**

C) Helix angle have no change when lead decreases

D) Helix angle have no change when lead increases