

Govt ITI MULABAGAL

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60.00% 30 / 50

Student Name	Mohan	Access Code	4076
Attempt No.	#2	Completion Time	03:40 PM
Rank	#2	Total Questions	50

30 SCORE

50 MAX MARKS

30 CORRECT

20 INCORRECT

Answer Review

Q1 INCORRECT What is the name of first member in a simple gear train?

A. Driven ☐

B. Driver ☒

C. Idler ☐

D. Reverible gear ☐

Q2 CORRECT What is the name of last member in a simple gear train?

A. Driver ☐

B. Idler ☐

C. Driven ☒

D. Reversing gear ☐

Q3 **CORRECT** How many numbers of gears having in a simple gear train?

A. 2

B. 3 ☒

C. 4

D. 5

Q4 **CORRECT** 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 ☒

Q5 **CORRECT** What is the shape of buttress thread flank?

A. One flank is 90 Degree and the other 45 Degree ☒

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

Q6 **CORRECT** What does BIS stands for?

A. Bureau of International Standard

B. Bureau of Indian Standard ☒

C. Bureau of International Society

D. Bereau of Indian Society

Q7 **CORRECT** Which one is the angle of buttress thread?

A. 30 Degree

B. 45 Degree ☒

C. 55 Degree

D. 60 Degree

Q8 **CORRECT** Which formula is used to find crest width of a buttress thread?

A. $0.125 \times \text{pitch}$ ☒

B. $0.317 \times \text{pitch}$

C. $0.335 \times \text{pitch}$

D. $0.5 \times \text{pitch}$

Q9 **INCORRECT** 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. $0.335 \times \text{pitch}$ ☒

D. $0.5 \times \text{pitch}$

Q10 **CORRECT** Which formula to be used to find depth of buttress thread?

A. $0.5 \times \text{pitch}$

B. $0.6134 \times \text{pitch}$

C. $0.6403 \times \text{pitch}$

D. $0.75 \times \text{pitch}$ ☒

Q11 **CORRECT** 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. Acme thread 60 mm dia x 9 mm pitch

D. Worm thread 60 mm dia x 9 mm pitch

Q12 **CORRECT** Which thread has only one helical formation?

A. Single start ☒

B. Double start

C. Triple start

D. Quadrapple

Q13 **CORRECT** 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

D. Depth of thread

Q14 **CORRECT** 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

Q15 **CORRECT** What is the lead of M 10 x 1.5 double start thread?

A. 2 mm

B. 3 mm ☒

C. 3.5 mm

D. 4 mm

Q16 **CORRECT** What is the formula to calculate the core dia of the square thread?

A. Major dia - 2 x depth ☒

B. Major dia - minor dia

C. Major dia - Pitch dia

D. Major dia - Depth of thread

Q17 **INCORRECT** What is the ratio between the pitch diameter and number of teeth of gear?

A. Tooth thickness

B. Module ☒

C. Dedendum

D. Addendum ☐

Q18 **CORRECT** What is the included angle of acme thread?

A. 55 Degree

B. 45 Degree

C. 30 Degree

D. 29 Degree ☒

Q19 **INCORRECT** Which type of thread is used in lathe head screw?

A. Acme thread ☐

B. Buttress thread

C. Knuckle thread

D. Square thread ☐

Q20 **CORRECT** 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 ☐

Q21 **INCORRECT** Which type of thread have higher mechanical advantage?

A. V- thread

B. Acme thread ☐

C. Square thread ☐

D. Buttress thread

Q22 **CORRECT** 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

Q23 **INCORRECT** 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 ☐

Q24 **CORRECT** 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
- D. Worm thread ☐

Q25 **INCORRECT** What is the term of thread the advancement of mating part in one complete rotation?

- A. Pitch ☐
- B. Depth
- C. Helix angle
- D. Lead ☐

Q26 **CORRECT** 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 ☐
- C. Connecting quick change gear box to lead screw
- D. Connecting lead screw to changing dial

Q27 **INCORRECT** What is the purpose of idler gear in simple gear train?

A. Reduce gear ratio

B. Transmit power between driver and driven gears ☒

C. Reduce spindle speed

D. Increase spindle speed ☐

Q28 **CORRECT** Which parameter will decide the driver and driven gear ratio to cut thread on lathe?

A. Major dia of work

B. Pitch ☒

C. Root dia of work

D. Angle of thread

Q29 **INCORRECT** 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

D. Driver 100 teeth driven 25 teeth

Q30 **INCORRECT** 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

Q31 **CORRECT** 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

D. Easy to engage

Q32 **CORRECT** What is the gear ratio if the lathe constant value is one?

A. One ☒

B. Two

C. Three

D. Six

Q33 **CORRECT** Which part of a lathe is used to catch thread quickly?

A. Tool post

B. Top slide

C. Chasing dial ☒

D. Cross - slide

Q34 **CORRECT** 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

Q35 **INCORRECT** Which of the following used buttress thread?

A. Screw jack

B. Lead screw of lathe ☐

C. Carpentry vice ☒

D. General purpose nut and bolt

Q36 **CORRECT** 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

Q37 **CORRECT** 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

Q38 **CORRECT** What type of thread is used in screw jack machine?

A. Acme thread

B. Square thread ☒

C. Buttress thread

D. V-thread

Q39 **INCORRECT** 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 ☒

D. Lead is 1/4 pitch ☐

Q40 **CORRECT** 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"

Q41 **INCORRECT** 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 ☐

C. Driver 30 teeth, Driven 70 teeth

D. Driver 50 teeth, Driven 100 teeth

Q42 **INCORRECT** Where multistart threads are used?

A. For easy alignment

B. For quick transmission ☒

C. For easy engagement ☐

D. For general fastening

Q43 **INCORRECT** Calculate pitch diameter of f 24 x 3 mm square thread?

A. 21 mm ☐

B. 21.5 mm ☐

C. 22.5 mm ☒

D. 24 mm ☐

Q44 **INCORRECT** Calculate pitch diameter of M16 x 2 mm square thread?

A. 14 mm ☐

B. 15 mm ☒

C. 15.5 mm ☐

D. 16 mm ☐

Q45 **INCORRECT** 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 ☐

D. Lead = 1/3 x pitch ☐

Q46 **CORRECT** Find the lead of a 2 start thread having pitch 1.5 mm?

A. 1.50 mm ☐

B. 3.00 mm ☒

C. 4.50 mm ☐

D. 6.00 mm ☐

Q47 **INCORRECT** What is the nose cutter width of the square threads tool?

A. $0.5 \times \text{Pitch}$ ☐

B. equal to pitch ☐

C. $\text{Pitch} / 0.5$ ☒

D. $2 \times \text{Pitch}$ ☐

Q48 **CORRECT** How many number of teeth gear is used to as translating gear to cut metric thread on British lathe?

A. 100 ☐

B. 127 ☒

C. 140 ☐

D. 135 ☐

Q49 **INCORRECT** 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 ☒

C. No change in helix angle if diameter increases ☐

D. No change in helix angle diameter decreases ☐

Q50 **INCORRECT** 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 ☐

D. Helix angle have no change when lead increases ☐