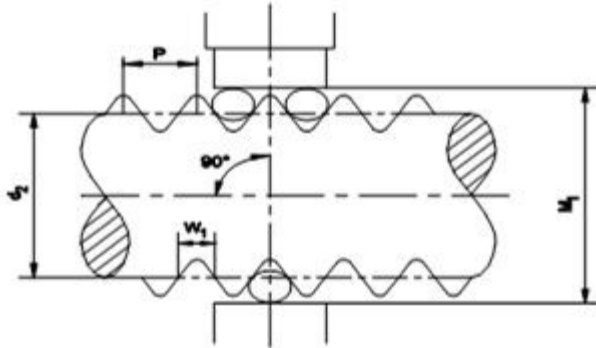


ITI Machinist 1st Year Module 5 aper turning & Thread cutting

(1). What is the height of slip gauge build up?



- (A) 44.872
- (B) 44.8725
- (C) 44.87
- (D) 44.8

Correct Answer : B

(2). What is the included angle of metric acme thread?

- (A) 30°
- (B) 29°
- (C) 24°
- (D) 20°

Correct Answer : B

(3). Calculate the gears required to cut a 1.5mm pitch in a lathe having a lead screw of 5mm pitch?

- (A) Driver 30, Driven 50

(B) Driver 30, Driven 100

(C) Driver 100, Driven 30

(D) Driver 100, Driven 60

Correct Answer : B

(4). What is the taper ratio for a taper length of 20 units the difference in diameter is one unit?

(A) 1:15

(B) 1:20

(C) 2:15

(D) 3:20

Correct Answer : B

(5). Which taper is most commonly used as standard taper in industries?

(A) Jerno taper

(B) Morse taper

(C) Metric taper

(D) Brown & Sharpe taper

Correct Answer : B

(6). How do you protect slip gauge from rust?

(A) Apply oil

(B) Apply kerosene

(C) Apply wax

(D) Apply petroleum jelly

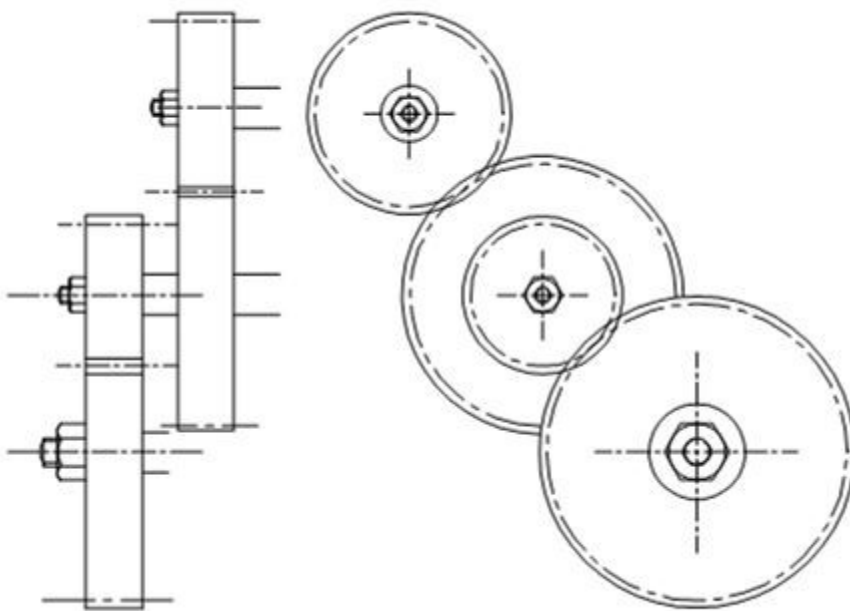
Correct Answer : D

(7). What is 'Best wire' in thread measurement?

- (A) Contact at root
- (B) Contact at crest
- (C) Contact is at pitch line
- (D) Contact above pitch line

Correct Answer : C

(8). Which is the type gear train?



- (A) Simple gear train
- (B) Compound gear train
- (C) Reverted gear train
- (D) Triple gear train

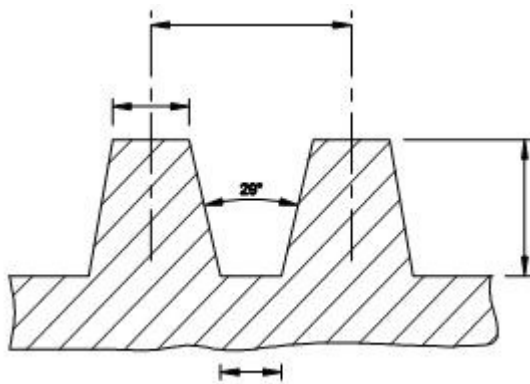
Correct Answer : B

(9). What grade of slip gauge used for precision tool room applications?

- (A) Grade '0' accuracy
(B) Grade 2 accuracy
(C) Grade 1 accuracy
(D) Grade 00 accuracy

Correct Answer : D

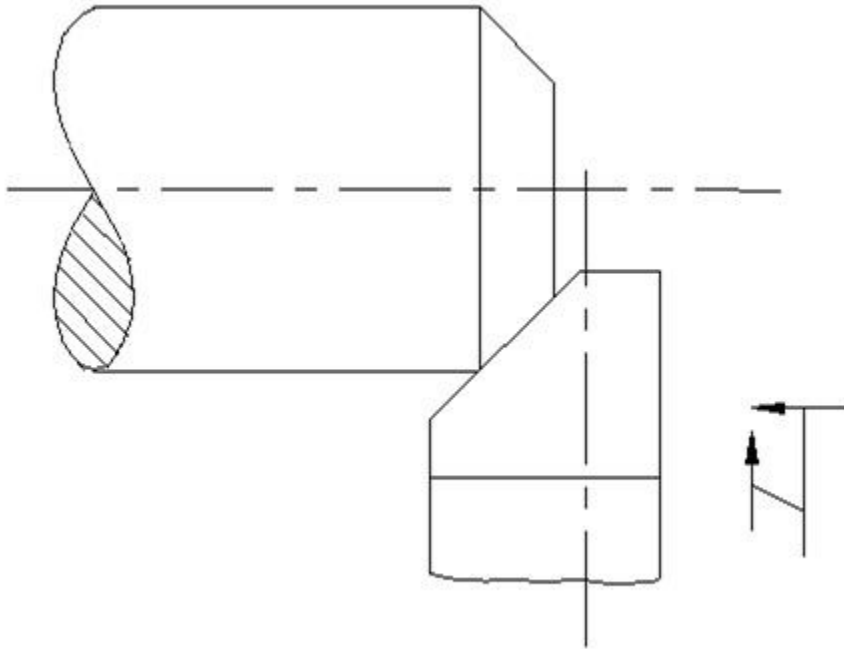
(10). Which one is the use of thread?



- (A) Used in screw jack
- (B) Used on lathe lead screw
- (C) Used for general purpose
- (D) Used for precision measuring instruments

Correct Answer : B

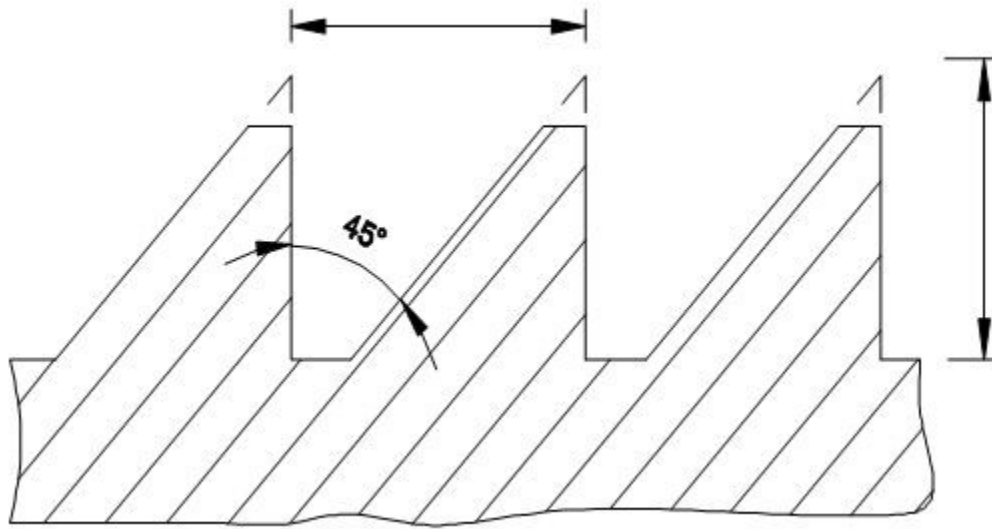
(11). Identify the taper turning method.



- (A) Form tool method
- (B) Compound slide method
- (C) Tail stock offset method
- (D) Taper turning attachment method

Correct Answer : A

(12). What is the type of thread?



- (A) Acme
- (B) Square
- (C) Saw tooth
- (D) Buttress

Correct Answer : D

(13). What is formula of gear ratio for cutting threads?

$$\frac{\text{DRIVER}}{\text{DRIVEN}} = \frac{\text{LEAD OF WORK}}{\text{LEAD OF LEADSCREW}}$$

- (A)

$$\frac{\text{DRIVER}}{\text{DRIVEN}} = \frac{\text{PITCH OF WORK}}{\text{LEAD OF LEADSCREW}}$$

(B)

$$\frac{\text{DRIVER}}{\text{DRIVEN}} = \frac{\text{LEAD OF LEADSCREW}}{\text{LEAD OF WORK}}$$

(C)

$$\frac{\text{DRIVER}}{\text{DRIVEN}} = \frac{\text{PITCH OF LEADSCREW}}{\text{LEAD OF LEADSCREW}}$$

(D)

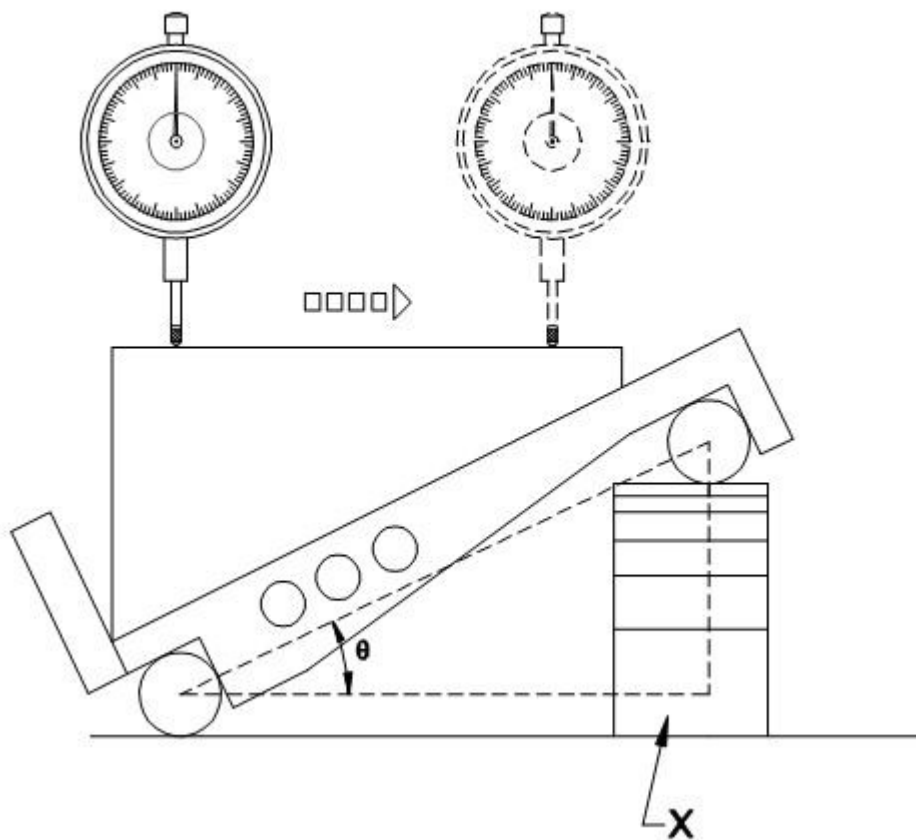
Correct Answer : A

(14). Which micrometer is used to measure the effective diameter of the threads?

- (A) Depth micrometer
- (B) Inside micrometer
- (C) Outside micrometer
- (D) Screw thread micrometer

Correct Answer : D

(15). What is the name of part marked as X?



- (A) Sine bar
- (B) Slip gauge
- (C) Dial gauge
- (D) Datum surface

Correct Answer : B

(16). What is depth of square thread having 6 mm pitch?

- (A) 6 mm
- (B) 4 mm
- (C) 3 mm

(D) 2 mm

Correct Answer : C

(17). Which formula is used to find depth of ACME thread?

(A) $0.5 \times \text{pitch}$

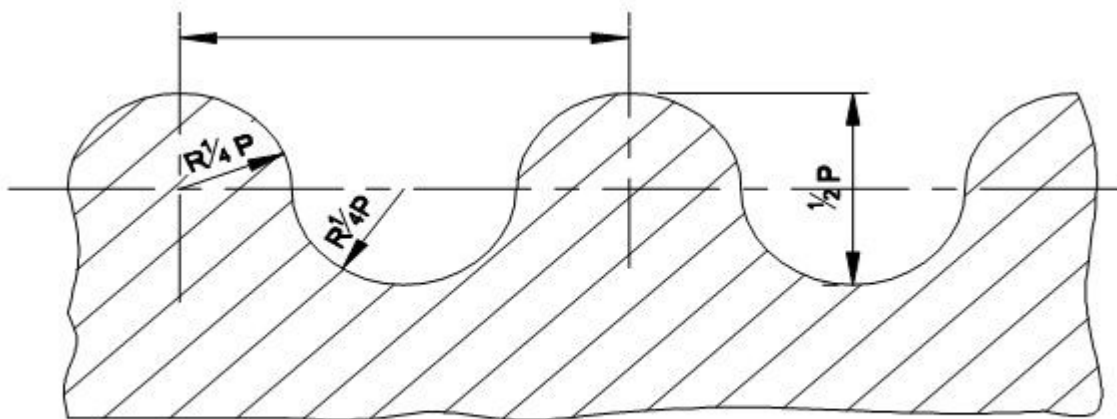
(B) $0.6134 \times \text{pitch}$

(C) $0.6403 \times \text{pitch}$

(D) $0.75 \times \text{pitch}$

Correct Answer : A

(18). What is the type of thread?



(A) Acme thread

(B) Knuckle thread

(C) Buttress thread

(D) Worm thread

Correct Answer : B

(19). What is the width of flat of square thread having pitch of 6 mm.

- (A) 6 mm
- (B) 4 mm
- (C) 3 mm
- (D) 2 mm

Correct Answer : C

(20). What is the formula to find the angle at which the compound rest is to set for taper turning?

$$\tan \theta = \frac{D-d}{2l}$$

(A)

$$\tan \theta = \frac{D-d}{2L}$$

(B)

$$\tan \theta = \frac{D-d}{l}$$

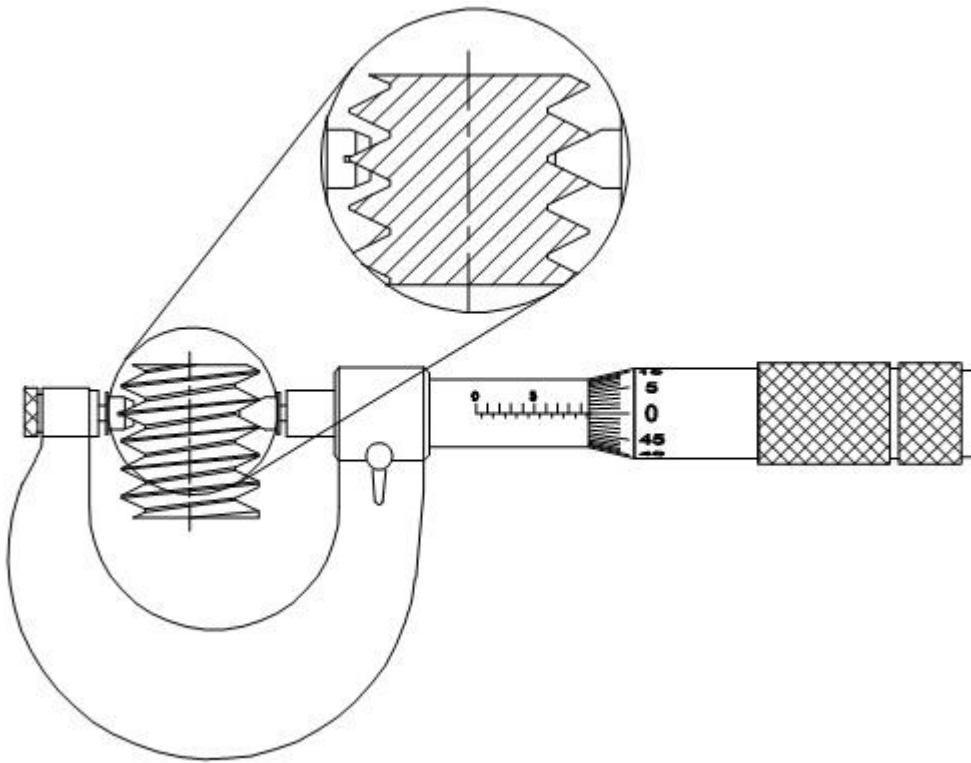
(C)

$$\tan \theta = \frac{D-d}{L}$$

(D)

Correct Answer : B

(21). What is the instrument shown in the fig?



- (A) Vernier micrometer
- (B) Screw thread micrometer
- (C) Screw thread caliper gauge
- (D) Screw thread snap gauge

Correct Answer : B

(22). What is the angle of saw tooth thread?

- (A) 29°
- (B) 30°
- (C) 45°
- (D) 90°

Correct Answer : B

(23). What is the formula to find out the angle of taper?

$$\tan \theta = \frac{d - D}{2L}$$

(A)

$$\tan \theta = \frac{d - D}{L}$$

(B)

$$\tan \theta = \frac{D - d}{2L}$$

(C)

$$\tan \theta = \frac{D - d}{L}$$

(D)

Correct Answer : C

(24). Which method of taper turning is possible when the work is held between centres only?

(A) Form tool method

(B) Compound rest method

(C) Tailstock offset method

(D) Taper turning attachment method

Correct Answer : C

(25). What is the reason for using ACME thread in lathe lead screw?

- (A) Easily available
- (B) Manufacturing cost is less
- (C) Enable easy engagement
- (D) Suitable for big diameter thread

Correct Answer : C

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