

1). Which is the imaginary circle on two mating gears?

- (A) Root circle
- (B) Pitch circle
- (C) Base circle
- (D) Addendum circle Correct

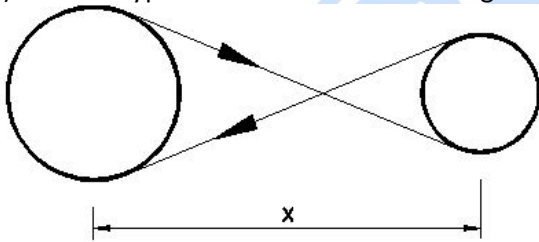
Answer: B

2). In which type of belt drive, the driven shaft will rotate in the opposite direction to the driver shaft?

- (A) Stepped drive
- (B) Open belt drive
- (C) Cross belt drive
- (D) Right angled belt drive

Correct Answer: C

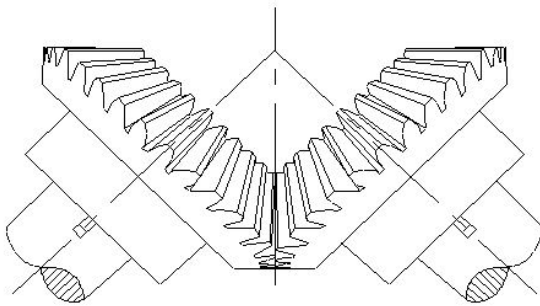
3). Which type of drive is shown in the figure?



- (A) Stepped drive
- (B) Right angled drive
- (C) Open belt drive
- (D) Cross-belt drive

Correct Answer: D

4). What is the name of the gear shown in the figure?



- (A) Spur gear
- (B) Mitre gear
- (C) Hypoid gear
- (D) Herring bone gear

Correct Answer: B

5). Why is a spider coupling typically used for low power drives?

- (A) Larger size
- (B) Heavy
- (C) Rubber spacer
- (D) Rigid

Correct Answer: C

6). Which chain drive provides noiseless and uniform drive?

- (A) Duplex chain
- (B) Toothed chain
- (C) Simplex chain
- (D) Triple roller type chain

Correct Answer: B

7). Why universal uni-joint coupling is only suitable for remote manual operations?

- (A) Provides a soft start
- (B) Transmitted low power is not smooth
- (C) Used in pairs on cardan shafts
- (D) Used to reduce the engine vibration

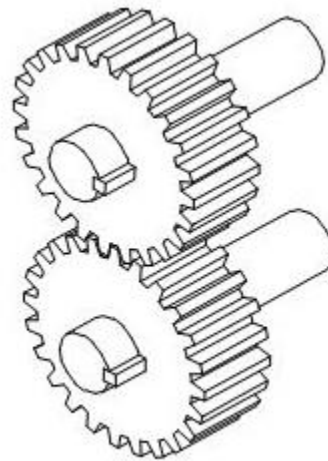
Correct Answer: B

8). Which type of gear drive changes rotary movement to linear movement?

- (A) Hypoid
- (B) Herring bone
- (C) Rack and pinion
- (D) Helical gear

Correct Answer: C

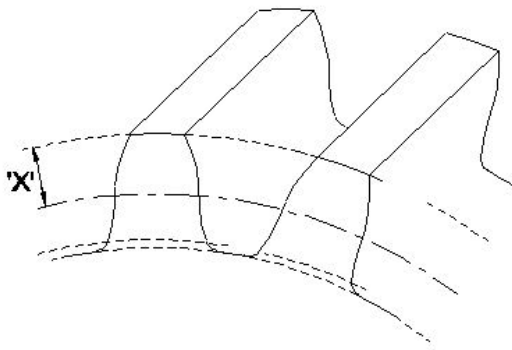
9). What is the name of the gear shown in the figure?



- (A) Spur gear
- (B) Mitre gear
- (C) Bevel gear
- (D) Hypoid gear

Correct Answer: A

10). What is the name of the part marked as 'x' shown in the figure?



- (A) Flank
- (B) Addendum
- (C) Face width
- (D) Root circle

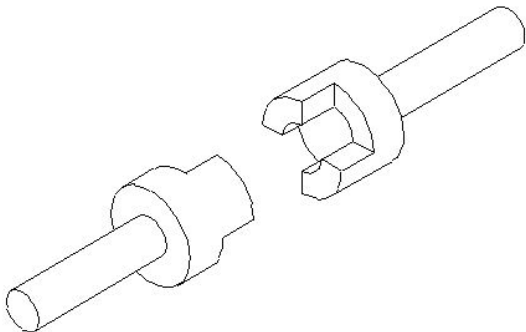
Correct Answer: B

11). Where is universal coupling used?

- (A) Automobile vehicles
- (B) Textiles mills
- (C) Compressors
- (D) Pumps

Correct Answer: A

12). What is the name of the clutch shown in the figure?



- (A) Air clutch
- (B) Dog clutch
- (C) Cone clutch
- (D) Single plate clutch

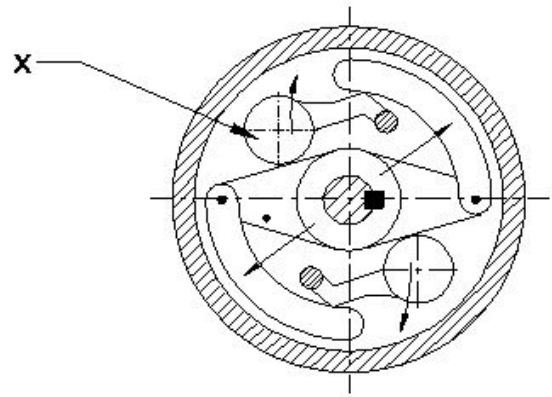
Correct Answer: B

13). What is the effect of the disengaged clutch position in a multiplate clutch?

- (A) Clutch provides drive
- (B) Armature transmits the drive
- (C) Transmission gear box starts to run
- (D) Transmission gear box brought to rest

Correct Answer: D

14). What is the name of the part marked as 'X' shown in the figure?



- (A) Inner piece
- (B) Outer piece
- (C) Rubbing surface
- (D) Centrifugal weight

Correct Answer: D

15). Which gear is Symmetrical to each other and transmits motion at right angle?

- (A) Spur gear
- (B) Mitre gear
- (C) Helical gear
- (D) Hypoid gear

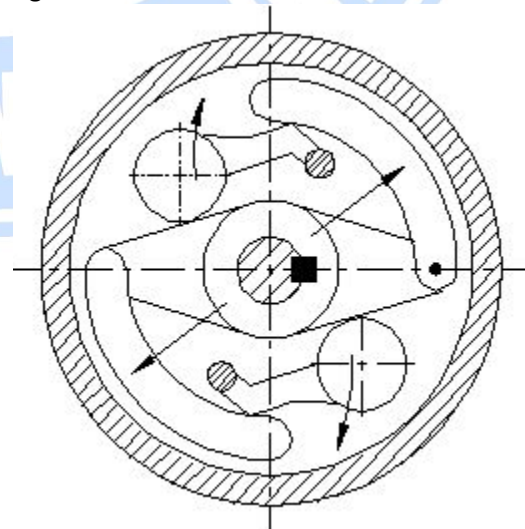
Correct Answer: B

16). What causes excessive tension and additional stress, leading to reduced belt life?

- (A) Wrapping angle is big
- (B) Tension ratio is higher
- (C) Arc of contact is less
- (D) Arc of contact is more

Correct Answer: C

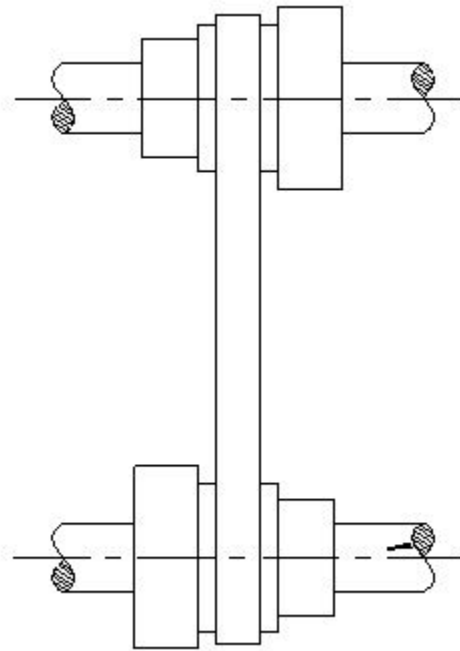
17). What is the name of the clutch shown in the figure?



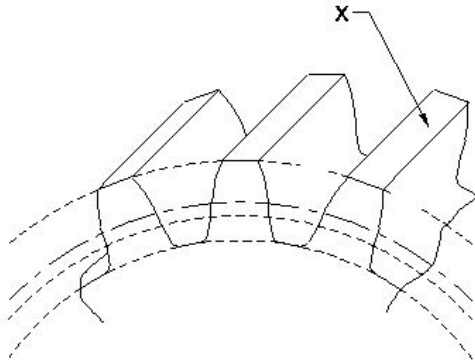
- (A) Air clutch

- (B) Cone clutch
- (C) Centrifugal clutch
- (D) Over riding clutch

Correct Answer: C



18). What is the name of the part marked as 'X' shown in the figure?



- (A) Flank
- (B) Top land
- (C) Fillet
- (D) Face

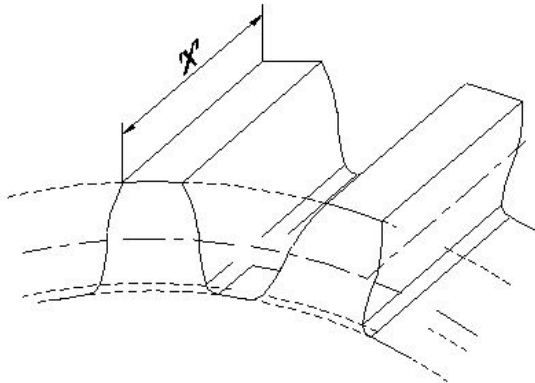
Correct Answer: B

19). Which drive transmits motion at a constant velocity without any creep and slippage?

- (A) Rope drive
- (B) Gear drive
- (C) Pulley drive
- (D) Chain drive

Correct Answer: D

20). What is the name of the part marked as 'x' shown in the figure?



- (A) Pitch line
- (B) Dedendum
- (C) Addendum
- (D) Face width

Correct Answer: D

21). Which type of drive is shown in the figure?

- (A) Stepped drive
- (B) Open belt drive
- (C) Right angled drive
- (D) Cross-belt drive

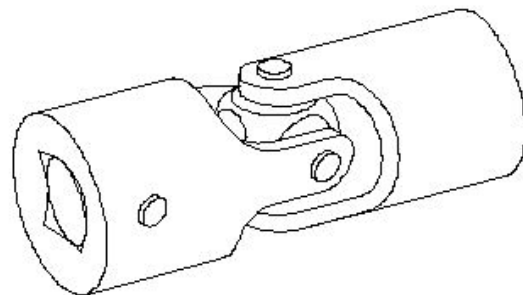
Correct Answer: A

22). How the gripping property of the dried belt is improved?

- (A) By using Jockey pulley
- (B) By applying powdered resin
- (C) By Reducing the distance between pulleys
- (D) By Increasing the distance between pulleys

Correct Answer: B

23). What is the name of the coupling shown in the figure?



- (A) Slip coupling
- (B) Plate coupling
- (C) Clamp coupling
- (D) Universal coupling

Correct Answer: D

24). What happens if a flat pulley is provided with larger crowning?

- (A) The arc of contact is more
- (B) More power can be transmitted
- (C) Easy to shift the belt
- (D) Belt will be damaged

Correct Answer: D

25). Why the face of pulley is “Crowned” in power transmission?

- (A) Increase the tension
- (B) Decrease the tension
- (C) Keep the belt centralised
- (D) Allows free rotation in pulley

Correct Answer: C

