Assignment 7

The due date for submitting this assignment has passed. Due on 2018-03-14, 23:59 IST.

Submitted assignment

1) If the width of sheet is assumed to be constant before and after rolling process, then the velocity of sheet

- Decreases from entrance to exit
- Increases from entrance to exit
- Remains same from entrance to exit
- None of these

No, the answer is incorrect.
Score: 0
Accepted Answers: Increases from entrance to exit

2) The operation to reduce the cross-section of the work with increase in length is called as

- Edging
- Fullering
- Drawing out
- Bending

No, the answer is incorrect.
Score: 0
Accepted Answers: Drawing out

3) Gathering the metal at its location is called as

- Fullering
- Drawing out
4) The operation to reduce the cross-section of the portion of a stock is called as

- Fullering
- Bending
- Spinning
- Edging

No, the answer is incorrect.
Score: 0
Accepted Answers:
- Fullering

5) In rolling operation, roll strip contact length is evaluated as

Where \( Dh = \) change in thickness of the plate & \( R = \) roll radius

- \( Dh \times R \)
- \([ Dh \times R]\)^{1/2}
- \( Dh / R \)
- \([ Dh \times R]\)^{1/3}

No, the answer is incorrect.
Score: 0
Accepted Answers:
- \([ Dh \times R]\)^{1/2}

6) In rolling operation, the maximum change in thickness of the plate \( (Dh_{\text{max}}) \) is evaluated as

Where \( m = \) coefficient of friction between roll and plate & \( R = \) roll radius

- \( m^2 / R \)
- \( m^2 + R \)
- \( m^2 - R \)
- \( m^2 \times R \)

No, the answer is incorrect.
Score: 0
Accepted Answers:
- \( m^2 \times R \)

7) In rolling process, the state of stress of the material undergoing deformation is

- Pure compression
- Pure shear
- Compression and shear
- Tension and shear

No, the answer is incorrect.
Score: 0
Accepted Answers:
- Pure compression

8) Which of the following statement is/are correct for closed die forging? 1 point
(i) Closed die forging is also known as impression die forging.
(ii) In closed die forging blocking means work piece is at completely finishing stage.
9) A steel plate 20 mm thick is to be rolled to 14 mm in a four high rolling mill having roll diameter 480 mm. If yield stress is 120 M Pa, then the angle of bite is

- 9
- 21.2
- 15.3
- 24.4

No, the answer is incorrect.
Score: 0
Accepted Answers:
Only i

10) A steel plate 20 mm thick is to be rolled to 14 mm in a four high rolling mill having roll diameter 480 mm. If the given reduction is the maximum reduction possible, then the coefficient of friction is

- 0.158
- 0.312
- 0.426
- 0.025

No, the answer is incorrect.
Score: 0
Accepted Answers:
0.158