

Unit 7 - Week 6

Course outline

How to access the portal

Week 1

Week 2

Week 3

Week 4

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Week 6

- Introduction and classification of forging processes
- Equipments used in forging
- Forging in plane strain
- Introduction and classification of rolling processes
- Analysis of rolling load calculations

Quiz : Assignment 6

- Solution of Assignment 6

Week 7

Week 8

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Assignment 6

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-09-11, 23:59 IST.

1) Smith forging falls under the category of 1 point

- Closed die forging
- Drop forging
- Open die forging
- Press forging

No, the answer is incorrect.
Score: 0

Accepted Answers:
Open die forging

2) Continuous squeezing is taking place in 1 point

- Closed die forging
- Drop forging
- Open die forging
- Press forging

No, the answer is incorrect.
Score: 0

Accepted Answers:
Press forging

3) Impression die forging is also known as 1 point

- Closed die forging
- Drop forging
- Open die forging
- Press forging

No, the answer is incorrect.
Score: 0

Accepted Answers:
Closed die forging

4) In rolling operation, first breakdown product of ingot is called as 1 point

- Bloom
- Billet
- Slab
- Plate

No, the answer is incorrect.
Score: 0

Accepted Answers:
Bloom

5) In open die forging, a disc of diameter 200 mm and height 60 mm is compressed without any barreling effect. The final diameter of the disc is 400 mm. The true strain is 1 point

- 1.986
- 1.686
- 1.386
- 0.602

No, the answer is incorrect.
Score: 0

Accepted Answers:
1.386

6) A solid cylinder of diameter 100 mm and height 50 mm is forged between two frictionless flat dies to a height of 25 mm. The percentage change in diameter is 1 point

- 0
- 2.07
- 20.7
- 41.4

No, the answer is incorrect.
Score: 0

Accepted Answers:
41.4

7) In rolling operation, roll strip contact length is evaluated as 1 point
Where Dh = change in thickness of the plate and 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:
 $[Dh \times R]^{1/2}$

8) 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 MPa, then the angle of bite is 1 point

- 9
- 21.2
- 15.3
- 24.4

No, the answer is incorrect.
Score: 0

Accepted Answers:
9

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 the given reduction is the maximum reduction possible, then the coefficient of friction is 1 point

- 0.158
- 0.312
- 0.426
- 0.025

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.158

10) Coefficient of spread is defined as 1 point

- Width elongation / Thickness elongation
- Width elongation \times Thickness elongation
- Width elongation + Thickness elongation
- Width elongation - Thickness elongation

No, the answer is incorrect.
Score: 0

Accepted Answers:
Width elongation / Thickness elongation