Assignment 6

The due date for submitting this assignment is pasted. As per our norms, you have not submitted this assignment.

1. Smith forging falls under the category of
   - Choice A: Drop forging
   - Choice B: Drop forging
   - Choice C: Press forging
   - Choice D: Open die forging
   - The answer is incorrect.
   - Acceptable Answers: None

2. Conditions required for taking place in
   - Choice A: Closed die forging
   - Choice B: Drop forging
   - Choice C: Open die forging
   - Choice D: Press forging
   - The answer is incorrect.
   - Acceptable Answers: None

3. Impression die forging is also known as
   - Choice A: Closed die forging
   - Choice B: Drop forging
   - Choice C: Open die forging
   - Choice D: Press forging
   - The answer is incorrect.
   - Acceptable Answers: None

4. In rolling operation, first breakdown product of ingot is called as
   - Choice A: Billet
   - Choice B: Billet
   - Choice C: Slab
   - Choice D: Plate
   - The answer is incorrect.
   - Acceptable Answers: None

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
   - Choice A: 1.806
   - Choice B: 1.806
   - Choice C: 1.806
   - Choice D: 1.802
   - The answer is incorrect.
   - Acceptable Answers: None

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
   - Choice A: 26.7
   - Choice B: 30.7
   - Choice C: 41.4
   - The answer is correct.
   - Acceptable Answers: All of the above

7. In rolling operation, coil strip contact length is evaluated as
   - Where D1 = Original diameter of the plate and R = Coils radius
   - Choice A: \( \frac{2 \pi D \times R}{4} \)
   - Choice B: \( \frac{\pi R}{D1} \)
   - Choice C: \( \frac{4 \pi R}{D1} \)
   - The answer is incorrect.
   - Acceptable Answers: None

8. A steel plate 20 mm thick is to be rolled to 1.4 mm in a four high rolling mill having roll diameter 400 mm. If yield stress is 120 MPa, then the angle of bite is
   - Choice A: 21.2
   - Choice B: 21.3
   - Choice C: 24.4
   - The answer is incorrect.
   - Acceptable Answers: None

9. A cup and punch set which is to be rolled to 14 mm in a horn rolling mill having roll diameter 400 mm. If the given reduction is the maximum reduction possible, then the coefficient of friction is
   - Choice A: 0.132
   - Choice B: 0.122
   - Choice C: 0.463
   - Choice D: 0.425
   - The answer is incorrect.
   - Acceptable Answers: None

10. Coefficient of speed is defined as
    - Metal elongation / Thickness elongation
    - Work elongation / Thickness elongation
    - Work elongation / Thickness elongation
    - Work elongation / Thickness elongation
    - The answer is incorrect.
    - Acceptable Answers: None