

# Unit 2 - Week 1

## Course outline

How does an NPTEL online course work?

### Week 1

- Lecture 1: Introduction to Continuous Casting Process
- Lecture 2: Role of Tundish in Continuous Casting
- Lecture 3: Types of Continuous Casting Machine
- Lecture 4: Components of Continuous Casting Unit
- Lecture 5: Tundish Metallurgy

### Quiz : Assignment 1

- Solution for Assignment 1

### Week 2

### Week 3

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## Assignment 1

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

**Due on 2020-02-12, 23:59 IST.**

1) In the continuous casting process, molten metal is transferred from the .....via a ..... into the mold. 1 point

- Ladle, Tundish
- Tundish, Runner
- Tundish, Ladle
- Ladle, gate

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Ladle, Tundish*

2) Copper mold is used in Continuous casting machine due to it's 1 point

- High thermal conductivity
- High strength
- High ductility
- None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*High thermal conductivity*

3) The meaning of negative strip during sinusoidal motion of Continuous casting mold means 1 point

- Mold moves downward faster than the solidifying skin for a percentage of the oscillating cycle.
- Mold moves downward slower than the solidifying skin for a percentage of the oscillating cycle.
- Both Mold and solidifying skin move with equal velocity for a percentage of the oscillating cycle
- None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Mold moves downward faster than the solidifying skin for a percentage of the oscillating cycle.*

4) The main cause(s) of inclusion formation and contamination of the melt include 1 point

- Reoxidation of the melt by air
- Carried over oxidizing ladle slag
- Entrapment of tundish and ladle slag
- All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*All of the above*

5) In the vertical type of Continuous Casting machine, mold is .....and discharge is..... 1 point

- Vertical, Horizontal
- Horizontal and Vertical
- Vertical and Vertical
- Horizontal and Horizontal

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Vertical and Vertical*

6) Multi-strand type tundish has 1 point

- Multiple inlets and one outlet.
- Multiple inlets and multiple outlets
- One inlet and multiple outlets
- None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*One inlet and multiple outlets*

7) Function(s) of flux powder in mold is /are 1 point

- Provide Lubrication between solid shell and mold
- Minimize heat loss
- Prevent molten metal oxidation
- All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*All of the above*

8) Secondary cooling in Continuous casting is carried out by 1 point

- Water spray
- Air spray
- Both a & b
- None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Water spray*

9) Flow modifiers devices are 1 point

- Dam
- Weir
- Baffle
- All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*All of the above*

10) Usually, the size of exogenous inclusions is .....to the indigenous ones 1 point

- Smaller
- Larger
- Same as
- None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Larger*