

Unit 6 - Week 5

Course outline

How does an NPTEL online course work?

week 1

week 2

Week 3

Week 4

Week 5

Different Routes and Temperature Control

Nature and Distribution of Entrapments in Casting

Sources of Exogenous Entrapments

Effect of Vertical vis-a-vis Curved Mould

Quiz : Assignment 5

Week 5 Feedback :Steel Quality: Role of Secondary Refining and Continuous Casting

Week 6

Week 7

week 8

Week 9

Week 10

Week 11

Week 12

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Assignment 5

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

Due on 2020-03-04, 23:59 IST.

Either One or Two Solutions are Correct for Each Question .

When One Solution is Correct , choice of only the Correct One will give ONE mark. Choice of more than One will result in ZERO mark .

When Two Solutions are Correct , choice of only the TWO CORRECT will give ONE mark . Choice of more than Two will result in ZERO mark . One Correct Solution will give 0.5 mark

1) Heating of liquid steel is possible in the following secondary refining process :

1 point

- OLP
 LRF
 VD
 VAD

No, the answer is incorrect.

Score: 0

Accepted Answers:

LRF

VAD

2) Tapping temperature from BOF before secondary refining process is :

1 point

- Fixed
 High for OLP
 Low for LRF
 High for VAD

No, the answer is incorrect.

Score: 0

Accepted Answers:

High for OLP

Low for LRF

3) Cleanliness level in cast slab / bloom along its length is normally

1 point

- Uniform
 Poor at start
 Poor at ladle change
 Good at end

No, the answer is incorrect.

Score: 0

Accepted Answers:

Poor at start

Poor at ladle change

4) Arc of casting machine starts from :

1 point

- Top of curved mould
 Middle of curved mould
 Bottom of vertical mould

No, the answer is incorrect.

Score: 0

Accepted Answers:

Middle of curved mould

Bottom of vertical mould

5) Distribution of NMI along thickness of cast slab is normally not uniform for :

1 point

- Thin mould
 Wide mould
 Vertical mould
 Curved mould

No, the answer is incorrect.

Score: 0

Accepted Answers:

Curved mould

6) Presence of NMI along thickness of cast slab for vertical mould is :

1 point

- Uniform
 More at inner radius
 More at outer radius

No, the answer is incorrect.

Score: 0

Accepted Answers:

Uniform

7) Presence of NMI along thickness of cast slab for curved mould is :

1 point

- Uniform
 More at inner radius
 More at outer radius

No, the answer is incorrect.

Score: 0

Accepted Answers:

More at inner radius

8) The following may generate exogenous entrapment in liquid steel :

1 point

- Deoxidation
 Reoxidation
 Degassing
 Non-steady casting

No, the answer is incorrect.

Score: 0

Accepted Answers:

Reoxidation

Non-steady casting

9) Use of refractory shroud and argon from ladle to tundish helps to control :

1 point

- Slag entrapment
 Deoxidation
 Reoxidation

No, the answer is incorrect.

Score: 0

Accepted Answers:

Reoxidation

10) Presence of sodium oxide in entrapment associated with defect is traced to :

1 point

- Ladle slag
 Deoxidation product
 Mould slag
 Reoxidation product

No, the answer is incorrect.

Score: 0

Accepted Answers:

Mould slag