

Unit 5 - Week 4

Course outline

How does an NPTEL online course work?

week 1

week 2

Week 3

Week 4

Injection of Calcium

Decarburisation

Cleanliness Measures in Ladle and Tundish

Cleanliness Measures in Mould

Quiz : Assignment 4

Week 4 Feedback :Steel Quality: Role of Secondary Refining and Continuous Casting

Week 5

Week 6

Week 7

week 8

Week 9

Week 10

Week 11

Week 12

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Assignment 4

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

Due on 2020-02-26, 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) " H " and " N " can be brought down in liquid steel with the help of :

1 point

- Vacuum
 Argon purging
 High temperature
 Pressure

No, the answer is incorrect.
Score: 0

Accepted Answers:
Vacuum
Argon purging

2) Removal of " N " is slower in presence of following surface-active element :

1 point

- S
 H
 Al
 Ca
 O

No, the answer is incorrect.
Score: 0

Accepted Answers:
S

3) Decarburisation during secondary refining is very effective in :

1 point

- LRF
 VOD
 VD
 VAD
 AOD

No, the answer is incorrect.
Score: 0

Accepted Answers:
VOD
AOD

4) Calcium is injected in liquid steel as wire of :

1 point

- CaO
 Ca
 Ca-Fe
 Ca-Si

No, the answer is incorrect.
Score: 0

Accepted Answers:
Ca-Fe
Ca-Si

5) Liquid inclusion and good castability in presence of Ca is possible with the aid of :

1 point

- Low Al
 Low C
 Low S
 Low N

No, the answer is incorrect.
Score: 0

Accepted Answers:
Low Al
Low S

6) The following is a common source of large exogenous entrapment in steel :

1 point

- Reoxidation
 Mould slag
 Deoxidation
 MnS

No, the answer is incorrect.
Score: 0

Accepted Answers:
Reoxidation
Mould slag

7) The following can minimise " reoxidation " of liquid steel :

1 point

- High CaO in slag
 Low FeO in slag
 Low N
 Argon shrouding

No, the answer is incorrect.
Score: 0

Accepted Answers:
Low FeO in slag
Argon shrouding

8) Maximum improvement in liquid steel cleanliness is possible in :

1 point

- BOF converter
 Ladle
 Tundish
 CC mould

No, the answer is incorrect.
Score: 0

Accepted Answers:
CC mould

9) The following may lead to improvement in steel quality in tundish :

1 point

- Acidic lining
 FCD

 N₂ purging
 Two-layer slag

No, the answer is incorrect.
Score: 0

Accepted Answers:
FCD
Two-layer slag

10) The following processing factor in CC mould can influence steel cleanliness :

1 point

- Depth of SEN
 Change in speed
 Mould cooling
 Steel grade

No, the answer is incorrect.
Score: 0

Accepted Answers:
Depth of SEN
Change in speed