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Courses » Theory of Production Processes

Announcements **Course** Ask a Question Progress Mentor

Unit 5 - Week 4

Course outline

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Week 1

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Week 4

Lecture 16: Theory of melting: Types of furnaces

Lecture 17: Melting and production of Iron castings

Lecture 18: Production of steel and non-ferrous castings

Lecture 19: Casting design considerations

Lecture 20: Casting defects: Types, causes and remedies

Quiz : Assignment 4

Feedback Week-4

Assignment 4

The due date for submitting this assignment has passed. **Due on 2018-02-21, 23:59 IST.**

Submitted assignment

1) In cast iron, carbon percentage is 1 point

- More than 2
- Less than 2
- Always 1.5
- None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
More than 2

2) In gray cast iron, presence of silicon stabilizes carbon to form 1 point

- Austenite
- Martensite
- Pearlite
- Graphite

No, the answer is incorrect.
Score: 0

Accepted Answers:
Graphite

3) In white cast iron, carbon is in the form of 1 point

- B₄C
- Fe₃C
- TiC
- SiC

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be provided?

Steel

Aluminium

Magnesium

Gray cast iron

No, the answer is incorrect.
Score: 0

Accepted Answers:
Gray cast iron

5) Which of the following furnace is used for iron melting? **1 point**

Cupola furnace

Open hearth furnace

Crucible furnace

Reverberatory furnace

No, the answer is incorrect.
Score: 0

Accepted Answers:
Cupola furnace

6) Open hearth furnace is normally used for **1 point**

Melting of iron

Melting of steel

Melting of aluminium

Melting of magnesium

No, the answer is incorrect.
Score: 0

Accepted Answers:
Melting of steel

7) Which of the following material is used as a grain refiner in magnesium alloys? **1 point**

Aluminium

White cast iron

Zirconium

Molybdenum

No, the answer is incorrect.
Score: 0

Accepted Answers:
Zirconium

8) Blowhole, air inclusions and pinhole porosity are falls under the category of **1 point**

Gas defects in casting

Moulding material defects in casting

Pouring material defects in casting

Metallurgical defects in casting

No, the answer is incorrect.

Score: 0

Accepted Answers:

Gas defects in casting

9) The following table shows the type of metals and their properties **1 point**

- | | |
|--------------------|---|
| (A) Silicon | (i) Carbon is in the form of graphite |
| (B) Cast iron | (ii) Negative shrinkage allowance is provided |
| (C) SG iron | (iii) Responsible for graphitization |
| (D) Gray cast iron | (iv) Carbon in the form of nodule of graphite |

The correct match will be

- A-i, B-ii, C-iii, D-iv
- A-iii, B-i, C-iv, D-ii
- A-i, B-iv, C-iii, D-ii
- A-i, B-iii, C-ii, D-iv

No, the answer is incorrect.

Score: 0

Accepted Answers:

A-iii, B-i, C-iv, D-ii

10) Which of the following are formed due to the metallurgical defects in casting? **1 point**

- (i) Cold shut
- (ii) Misrun
- (iii) Hot tear
- (iv) Hot spot
- (v) Metal penetration
- (vi) Shift

- i, iii and vi only
- ii, iv and vi only
- iii, and iv only
- ii, v and vi only

No, the answer is incorrect.

Score: 0

Accepted Answers:

iii, and iv only

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