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

- [ ] More than 2
- [ ] Less than 2
- [x] 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

- [x] 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

- [ ] $\text{B}_4\text{C}$
- [ ] $\text{Fe}_3\text{C}$
- [ ] TiC
- [ ] SiC

No, the answer is incorrect.
Score: 0
Accepted Answers:
none of the above
5) Which of the following furnace is used for iron melting?  
- Cupola furnace
- Open hearth furnace
- Crucible furnace
- Reverberatory furnace

No, the answer is incorrect.
Score: 0
Accepted Answers: 
Gray cast iron

6) Open hearth furnace is normally used for 
- 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? 
- 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 
- Gas defects in casting
- Moulding material defects in casting
- Pouring material defects in casting
- Metallurgical defects in casting
9) The following table shows the type of metals and their properties

<table>
<thead>
<tr>
<th>No.</th>
<th>Type of Metal</th>
<th>Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>Silicon</td>
<td>(i) Carbon is in the form of graphite</td>
</tr>
<tr>
<td>B.</td>
<td>Cast iron</td>
<td>(ii) Negative shrinkage allowance is provided</td>
</tr>
<tr>
<td>C.</td>
<td>SG iron</td>
<td>(iii) Responsible for graphitization</td>
</tr>
<tr>
<td>D.</td>
<td>Gray cast iron</td>
<td>(iv) Carbon in the form of nodule of graphite</td>
</tr>
</tbody>
</table>

The correct match will be

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

(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