ourses » Iron Maki	ng Announcements Course Ask a Question	on Progress	Mentor
Init 9 - Iroi	n Making Week 7		
Course outline	Assignment 7		
How to access the portal	The due date for submitting this assignment has passed. Due of Submitted assignment	on 2018-03-28,	23:59 IST.
Iron Making Week 1	1) Questions 1 to 6: True or False: Combustion zone is above the cohesive zone.		0.25 poin
DOWNLOAD VIDEOS	TrueFalse		
Iron Making Week 2	No, the answer is incorrect. Score: 0		
Iron Making - Week 3	Accepted Answers: False 2) Rise in blast pressure is one of the indications of scaffolding		0 25 noin
Iron Making - Week 4	 True False No, the answer is incorrect. Score: 0 		
Iron Making - Week 5			
Iron Making Week 6	Accepted Answers: True		
Iron Making Week 7	3) Direct reduction of iron process is similar to the stack region proce furnace.	ss of the blast	0.25 poin
 Iron Making Lecture 31 	TrueFalse		
 Iron Making Lecture 32 	No, the answer is incorrect. Score: 0		
 Iron Making Lecture 33 	Accepted Answers:		
Iron Making Lecture 34	4) One of the main disadvantages of direct reduction of iron is that th	e final metallic iron	0.25 poin
Iron Making Lecture 35	produced is highly porous in nature.		
Quiz : Assignment 7	False		
iron-making- week7-	No, the answer is incorrect. Score: 0		
assignment7-	Accepted Answers:		

Interactive Session with Students

True		
⊢alse		
No, the answer is incorrect.		
Accented Answers		
False		
6) During blast furnace blow-in	process, the first few casts have lower Si content in hot	0.25 po
metal.		
True		
False		
No, the answer is incorrect. Score: 0		
Accepted Answers: False		
7) Questions 7 to 12: Fill in the	blanks:	
⁰ C is the initial blast temper	ature when the blast furnace is started for the first time.	
(enter your answer as a number	. eg: if your answer is 500, enter 500; not five hundred.)	
No, the answer is incorrect.		
Accented Answers		
(Type: String) 200		
		0.25 no
	we then for wanted and the state of the stat	0.25 po
8) The process of shutting dow	n the furnace is called down.	0.25 po
8) The process of shutting dow	n the furnace is called down.	0.25 po
8) The process of shutting dow No, the answer is incorrect.	n the furnace is called down.	0.25 po
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8) The process of shutting dow No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) blow	n the furnace is called down.	0.25 po 0.25 po
 8) The process of shutting down No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) blow 9) The blast is taken off for a second strength of the str	n the furnace is called down.	0.25 ро 0.25 ро
 8) The process of shutting down No, the answer is incorrect. Score: 0 Accepted Answers: (Type: String) blow 9) The blast is taken off for a semicircular semici	n the furnace is called down.	0.25 ро 0.25 ро
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 8) The process of shutting down No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) blow 9) The blast is taken off for a series No, the answer is incorrect. Score: 0 Accepted Answers: 	n the furnace is called down.	0.25 po 0.25 po
 8) The process of shutting down No, the answer is incorrect. Score: 0 Accepted Answers: (Type: String) blow 9) The blast is taken off for a s No, the answer is incorrect. Score: 0 Accepted Answers: (Type: String) back 	n the furnace is called down.	0.25 ро 0.25 ро
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 8) The process of shutting down No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) blow 9) The blast is taken off for a s 9) The blast is taken off for a s No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) back 10Formation of cold. central cold. 	n the furnace is called down.	0.25 ро. 0.25 ро. 0.25 ро.
 8) The process of shutting down No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) blow 9) The blast is taken off for a series 9) The blast is taken off for a series No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) back 10)Formation of cold, central control of cold. 	ohort period of time; which is called as drafting.	0.25 po 0.25 po 0.25 po led
 8) The process of shutting down No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) blow 9) The blast is taken off for a series No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) back 10)Formation of cold, central control of cold. 	n the furnace is called down.	0.25 po 0.25 po 0.25 po led
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 8) The process of shutting down No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) blow 9) The blast is taken off for a s 9) The blast is taken off for a s No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) back 10)Formation of cold, central cold No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) back 10)Formation of cold, central cold No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) Pillaring 	In the furnace is called down.	0.25 po 0.25 po 0.25 po led
 8) The process of shutting down No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) blow 9) The blast is taken off for a s 9) The blast is taken off for a s No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) back 10)Formation of cold, central constraints No, the answer is incorrect. Score: 0 Accepted Answers: (<i>Type: String</i>) back 10)Formation of cold, central constraints Accepted Answers: (<i>Type: String</i>) Pillaring 	In the furnace is called down.	0.25 po. 0.25 po. led

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No, the answer is incorrect.			
Score: 0			
Accepted Answers:			
(Type: String) Direct reduction			

No the answer is incorrect

0.25 points

12) is the major organic component in natural gas.

No, the answer is incorrect. Score: 0

Accepted Answers: (Type: String) methane

0.25 points

¹³Consider the reduction of spherical wustite pellet by H₂ into metallic iron at 700⁰C. Some ^{3 points} time is required to reduce the wustite pellet from 1cm diameter to 0.8cm diameter. The density of wustite is 4000kg/m³. The value of the constant 'k' may be taken as 0.09kg.s/m². Find out the approximate fraction reacted and time required in seconds, respectively, to reduce the wustite pellet from 1cm to 0.8cm diameter.

\bigcirc	0.22, 10.5s
\bigcirc	0.49, 44.0s
\bigcirc	0.22, 20.8s
	0.49, 68.7s

No, the answer is incorrect. Score: 0

Accepted Answers: 0.49, 44.0s

14)Questions 14 to 21: Multiple Choice Questions: The sequence of blast furnace blow-in process is: 0.5 points

- Filling, drying, lighting, operation.
- Filling, lighting, drying, operation.
- Operation, filling, drying, lighting.
- Drying, filling, lighting, operation.

No, the answer is incorrect. Score: 0

Accepted Answers: Drying, filling, lighting, operation.

15) The process of shutting down the blast furnace for a short period, can be carried out by: 0.5 points

- blow-in
- blow-out
- banking
- all of the above.

No, the answer is incorrect. Score: 0

Accepted Answers: banking

16)The chilled hearth problem in a blast furnace can be removed by:

- High flame temperature and high fuel rate
- Low flame temperature and low fuel rate
- Adding limestone
- Using bell-less charging

0.5 points

Iron Making - - Unit 9 - Iron Making Week 7 No, the answer is incorrect. Score: 0 Accepted Answers: High flame temperature and high fuel rate 17) Usually direct reduced iron (DRI) has: 0.5 points High Sulphur content No tramp elements High porosity All of the above No, the answer is incorrect. Score: 0 **Accepted Answers:** All of the above 18From start to end in blow-in method of a blast furnace, the following keeps on decreasing: 0.5 points Coke rate Blast volume Si content in hot metal Both first and second options No, the answer is incorrect. Score: 0 **Accepted Answers:** Both first and second options 19)Which gas flow pattern helps in reducing the alkalis? 0.5 points Peripheral Central No, the answer is incorrect. Score: 0 **Accepted Answers:** Central 20)Hanging at the top in a blast furnace occurs due to 0.5 points Bridge formation Wedge formation Scaffolding Carbon deposition reaction No, the answer is incorrect. Score: 0 **Accepted Answers:** Carbon deposition reaction 21)Midrex process is: 0.5 points Coal based Gas based Rotary type Fluidized bed type No, the answer is incorrect. Score: 0 **Accepted Answers:** Gas based

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End

