

Unit 8 - Week 6

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Assignment 6

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

Due on 2020-10-28, 23:59 IST.

1) How many metals are present in the periodic table? 1 point

- A. 71
 B. 81
 C. 91
 D. 87

No, the answer is incorrect.
Score: 0

Accepted Answers:
C. 91

2) By ductility of metals we mean that metals can be 1 point

- A. Resumed to its normal shape after force application
 B. Drawn into bars or thin wires
 C. Can be made into sheets
 D. Changed to any desired shape

No, the answer is incorrect.
Score: 0

Accepted Answers:
B. Drawn into bars or thin wires

3) Arrange the following metals in their increasing of their tensile strength: 1 point

- (i) High Carbon Steel
(ii) Mild carbon Steel
(iii) Wrought Iron
(iv) Cast Iron Select the following options that show the correct arrangement.

- A. (i) < (iii) < (ii) < (iv)
 B. (ii) < (iii) < (iv) < (i)
 C. (iv) < (iii) < (ii) < (i)
 D. (iii) < (ii) < (i) < (iv)

No, the answer is incorrect.
Score: 0

Accepted Answers:
D. (iii) < (ii) < (i) < (iv)

4) The pig iron is manufactured in which type of furnace? 1 point

- A. Blast Furnace
 B. Cupola Furnace
 C. Induction Furnace
 D. Reverberatory Furnace

No, the answer is incorrect.
Score: 0

Accepted Answers:
A. Blast Furnace

5) The ultimate compressive strength of high carbon steel (in kg/cm²) is 1 point

- A. 18000
 B. 15000
 C. 12000
 D. 10000

No, the answer is incorrect.
Score: 0

Accepted Answers:
A. 18000

6) During Hot rolling the metal temperature is 1 point

- A. same as its recrystallization temperature
 B. less than its recrystallization temperature
 C. greater than its recrystallization temperature
 D. None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
C. greater than its recrystallization temperature

7) The abbreviation of HYSD bar is 1 point

- A. Hot Yield Strong Deformed
 B. High Yield Strength Deformed
 C. High Yielding Shape Deformed
 D. Hot Yielding Shape Deformed

No, the answer is incorrect.
Score: 0

Accepted Answers:
B. High Yield Strength Deformed

8) The maximum amount of carbon content present in the Steel Reinforcement Bars is 1 point

- A. 0.2%
 B. 0.5%
 C. 0.25%
 D. 0.75%

No, the answer is incorrect.
Score: 0

Accepted Answers:
C. 0.25%

9) What happens in Bayer's Process? 1 point

- A. Copper oxide is extracted from Copper Pyrite
 B. Aluminum oxide is extracted from Bauxite
 C. Zinc oxide is obtained from Calamine
 D. Lead oxide is extracted from Galena

No, the answer is incorrect.
Score: 0

Accepted Answers:
B. Aluminum oxide is extracted from Bauxite

10) Which of the following metal needs minimum maintenance and is used in inaccessible areas of buildings? 1 point

- A. Zinc
 B. Lead
 C. Aluminum
 D. Copper

No, the answer is incorrect.
Score: 0

Accepted Answers:
D. Copper

11) Consider the following statements 2 points

Statement 1: Ferrous metals are prone to corrosion when exposed to weather.

Statement 2: Ferrous metals have high carbon content which aids in the oxidation process thus leading to corrosion. Choose the correct option from the alternatives

- A. Statement 1 is correct but Statement 2 is incorrect
 B. Statement 2 is correct but Statement 1 is incorrect
 C. Both the statements are correct but Statement 2 is not the proper explanation of Statement 1
 D. Both the statements are correct but Statement 2 is the correct explanation of Statement 1

No, the answer is incorrect.
Score: 0

Accepted Answers:
D. Both the statements are correct but Statement 2 is the correct explanation of Statement 1

12) Match the following iron ores with their respective carbon content given below 2 points

Iron Ores	Carbon Content (in %)
P. Cast Iron	(i) Less than 0.15
Q. Wrought Iron	(ii) 0.25 to 1.5
R. Steel	(iii) 1.7 to 4.5
	(iv) More than 5

The correct match from the set of options given below

- A. P-(iii), Q-(i), R-(ii);
 B. P-(iv), Q-(ii), R-(i);
 C. P-(i), Q-(iv), R-(iii);
 D. P-(ii), Q-(iii), R-(iv);

No, the answer is incorrect.
Score: 0

Accepted Answers:
A. P-(iii), Q-(i), R-(ii);

13) Match the following and select the correct combination 2 points

Process Name	Unique Characteristics
P. Soldering	(i) only filler metal melts
Q. Welding	(ii) Metals are heated below its melting point and soft metal components are hammered together.
R. Brazing	(iii) Metals are joined with tin-lead or lead-silver alloys. (iv) cannot be used on metals having low melting points

The correct match from the set of options given below

- A. P-(ii), Q-(i), R-(iii), (iv);
 B. P-(i), Q-(iv), R-(ii), (iii);
 C. P-(iii), Q-(ii), R-(i), (iv);
 D. P-(iv), Q-(iii), R-(i), (ii);

No, the answer is incorrect.
Score: 0

Accepted Answers:
C. P-(iii), Q-(ii), R-(i), (iv);

14) Match the following Protective coatings with their respective substances used to restrict corrosion 2 points

Protective Coatings	Materials/Substances used
P. Metal Plating	(i) Acrylic polymer and epoxy esters.
Q. Coating with claddings of organic substances	(ii) Electroplating with Nickel/Chromium
R. Anodic Coating	(iii) Aluminium oxide (iv) Galvanizing in molten metal such as Zinc.

The correct match from the set of options given below

- A. P-(iii), (iv); Q-(i); R-(ii);
 B. P-(i), (ii); Q-(iii); R-(iv);
 C. P-(i), (iii); Q-(ii); R-(iv);
 D. P-(ii), (iv); Q-(i); R-(iii);

No, the answer is incorrect.
Score: 0

Accepted Answers:
D. P-(ii), (iv); Q-(i); R-(iii);

15) Match the following and select the correct combination. 2 points

Metals/Alloys	Uses/features
P. Aluminum	i. immune to harmful effects from UV rays
Q. Zinc	ii. plug in fire sprinkler nozzles
R. Lead mixed with Tin, Bismuth & Cadmium	iii. Used in door and false ceiling frames
S. Copper	iv. Protective coating on iron and steel in paint form. v. Used for making brass and bronze

The correct match from the set of options given below

- A. P-iv, Q-i, R-ii, v, S-iii;
 B. P-iii, Q-i, iv, R-ii, S-v;
 C. P-ii, Q-v, R-iii, S-i, iv;
 D. P-i, Q-iii, R-iv, v, S-ii;

No, the answer is incorrect.
Score: 0

Accepted Answers:
B. P-iii, Q-i, iv, R-ii, S-v;