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Answer Page
Date: 10/10/2012
Examination Response

1. Describe a leaching reaction in part A below. In part B and C, consider the following model when you are writing your answers:
A. Briefly describe a leaching reaction which you can now see has had an incorrect pH.
B. Briefly describe a leaching reaction which you can now see has had an incorrect time.
C. Briefly describe a leaching reaction which you can now see has had an incorrect temperature.

Indicate clearly which question and section of the question you are referring to. The simple diagram below shows how Student X answers these questions.

Student X's answer to Part A: "The main point of the test was the leaching reaction." (1 pt)
Student X's answer to Part B: "I found it to be very difficult to work out how many molalities the test had required." (1 pt)
Student X's answer to Part C: "I found it to be very difficult to work out how long the reaction had to be carried out for." (1 pt)

Unit Test #3

Metallurgy

METALLURGY

Time: 90 minutes

Full Marks: 35

1. Very short answer type questions

1x5=5

- (a) Give name and formula of an important ore of Copper.
- (b) What is the role of graphite rods in electrometallurgy of aluminium?
- (c) Give the name of one acidic flux and one basic flux.
- (d) Why froth floatation process is used for concentration sulphide ores?
- (e) Give two requirements for vapour phase refining.

2. Short answer type questions

2x5=10

- (a) Name the Principle ore of Aluminium. Explain the significance of leaching in the extraction of Aluminium.
- (b) Differentiate between the terms "minerals" and "ores".
- (c) What are fluxes? How are they used?
- (d) Describe the method of refining of nickel.
- (e) Describe the method of refining of Zirconium and Titanium.

3. Short answer type questions

3x5=15

- (a) (i) What are the roles of cryolite in electrometallurgy of aluminium?
(ii) What is slag?
- (b) (i) Name the chief ore of silver. Describe with chemical equations the extraction of silver from this ore.
(ii) Which is better reducing agent at 983K, carbon or CO during the extraction of iron?
(c) (i) Copper can be extracted by Hydrometallurgy but not zinc. Comment.
(ii) Write the principle involved in zone refining.
- (d) What is leaching? The extraction of Au by leaching with NaCN involves both oxidation and reduction. Justify giving equations.
- (e) Write down the reactions taking place in blast furnace related to the metallurgy of iron in the temperature range 500- 800 K.

3. Long answer type question

5

- (a) What is Ellingham diagram? Give its use.
- (b) Write the principle of electro-refining.
- (c) What is Zone Refining? Explain with example.

OR

4. Long answer type question

5

- (a) Give two requirements for the vapour phase refining.

Nolmura Rahman

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Boring Lessons ..

Ab asaan...

Q. 7. How many parallel paths are used in a wave connected armature winding ?

Ans. Two parallel paths.

Q. 8. How many parallel paths are used in a lap connected armature winding ?

Ans. Parallel paths are equal to the number of poles used in the lap winding.

Q. 9. What will happen to the speed of shunt motor, if the polarity of d.c. supply to its terminals is changed ?

Ans. The speed will remain the same in r.p.m. and direction. The change of polarity of D.C shunt motor does not affect the speed direction.

Q. 10. What will happen to the speed of a series motor when the number of turns in its field winding is decreased ?

Short essay questions

Era of the Great War

1. To what extent was the machine gun the most effective weapon on the Western Front during the Great War?
2. To what extent did food shortages have the biggest impact on Scottish civilians during the Great War?
3. To what extent did the Suffragettes' campaign hurt the chances of women gaining the vote?
4. How important was patriotism as a reason that influenced Scots to volunteer to fight during the Great War?
5. To what extent was the problem of rats the biggest problems facing soldiers in the trenches during the Great War?
6. To what extent did propaganda have the most important role in encouraging Scottish civilians to support the war effort?

The Atlantic Slave Trade

1. To what extent did tribal conflict encouraged by the slave trade cause the most harm to African societies?
2. How important were military benefits as a reason Britain did not abolish the slave trade before 1807?
3. To what extent was the influence religion the main reason that Britain abolished the use of slavery?

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