Assignment 3

Due on 2020-03-19, 22:59 IST.

The due date for submitting this assignment has passed. As per our terms and conditions, you have not submitted the assignment.

1) The following is a primary streamlining process:
   - DCF
   - VOC
   - LSF
   - EDP
   - DCF
   - No, the answer is incorrect.

   Answer Choices:
   - DCF
   - VOC
   - LSF
   - EDP
   - DCF
   - Point

2) The following element can be easily controlled in BDF process:
   - C
   - S
   - N
   - F
   - No, the answer is incorrect.

   Answer Choices:
   - C
   - S
   - N
   - F

3) Primary streamlining is not ideal for refining because it is cloudy:
   - CDF
   - FO
   - MAO
   - SO
   - No, the answer is incorrect.

   Answer Choices:
   - CDF
   - FO
   - MAO
   - SO

4) Activity of acid elements O, C, D, H, S, P, Si in liquid steel is known to follow Henry’s law of solution. Therefore, activity of these can be taken to match with:
   - Mol fraction
   - Weight %
   - Activity coefficient
   - No, the answer is incorrect.

   Answer Choices:
   - Mol fraction
   - Weight %
   - Activity coefficient

5) Sulphate oxygen in liquid steel at completion of DCF process is:
   - 10 ppm
   - 5 weight %
   - 10 ppm
   - 4 weight %
   - 60 ppm
   - No, the answer is incorrect.

   Answer Choices:
   - 10 ppm
   - 5 weight %
   - 10 ppm
   - 4 weight %
   - 60 ppm

6) It may be derived from the reaction (1))+(2)=(3) of (2) that soluble C is
   - proportional to soluble O
   - independent of temperature
   - dependent on temperature
   - independent of temperature
   - No, the answer is incorrect.

   Answer Choices:
   - proportional to soluble O
   - independent of temperature
   - dependent on temperature
   - independent of temperature

7) “Killing” of liquid steel is essential to control:
   - sulphate O
   - soluble C
   - soluble H
   - sulphate H
   - No, the answer is incorrect.

   Answer Choices:
   - sulphate O
   - soluble C
   - soluble H
   - sulphate H

8) “5” removal is to feather [FeO]+[CaO] = [CaFe] in furnace when:
   - slag density is low
   - slag density is high
   - CaO in slag is high
   - No, the answer is incorrect.

   Answer Choices:
   - slag density is low
   - slag density is high
   - CaO in slag is high

9) The following is a very strong deoxidizer in liquid steel:
   - Ca
   - S
   - N
   - F
   - No, the answer is incorrect.

   Answer Choices:
   - Ca
   - S
   - N
   - F

10) Oxide impurities in steel are enhanced during deoxidation in presence of:
    - FO in slag
    - SO in slag
    - Argon spraying
    - CaO in slag
    - No, the answer is incorrect.

    Answer Choices:
    - FO in slag
    - SO in slag
    - Argon spraying
    - CaO in slag