Assignment 11

This can be done in submitting the assignment two weeks from now. As per our current status, you are not due to submit this assignment.

Due on 2020-05-15, 23:59 BST.

1. Incidence of metal debond in cast steel can be brought down with:
   - Low P & E
   - Suitable mould powder
   - Better finishes
   - Melter is incorrect
   - None of the above
   - Exceptional Answers:
     - Low P & E
     - Suitable mould powder

2. Problem of the stickiness in steel can be avoided by the following:
   - Low S
   - High S
   - Low P
   - High P
   - Melter is correct
   - Exceptional Answers:
     - Low P

3. Severe oxidation in cast steel's walls can be avoided by the following:
   - Low frequency
   - High frequency
   - Short arc time
   - Long arc time
   - Melter is correct
   - Exceptional Answers:
     - High frequency

4. Transverse surface crack on cast tooling of micro-alloyed steel can be controlled by
   - Low P
   - Low S
   - Low N
   - Suitable mould powder
   - Exceptional Answers:
     - Low N

5. Steels prone to staking and bulging should use:
   - Mild steel with better formation
   - Mild steel with low heat transfer
   - Higher secondary cooling
   - Lower secondary cooling
   - Exceptional Answers:
     - Higher secondary cooling

6. Steels prone to surface cracks and depressions should use:
   - Mild steel with better formation
   - Mild steel with low heat transfer
   - Higher secondary cooling
   - Lower mould lap
   - Exceptional Answers:
     - Higher secondary cooling

7. Excessive rise in cast billet / bloom can be increased by using:
   - Low superheat
   - High superheat
   - EMS
   - None of the above
   - Exceptional Answers:
     - EMS

8. Intensity of internal cracks in cast billet / bloom / slab can be controlled by:
   - mould cooling
   - Secondary cooling
   - Casting speed
   - Exceptional Answers:
     - Casting speed

9. Intensity of out-of-round cracks in cast billet / bloom / slab is influenced by:
   - mould cooling
   - Secondary cooling
   - Casting speed
   - Exceptional Answers:
     - Casting speed

10. Intensity of surface depression in cast billet / bloom / slab can be controlled by:
    - mould cooling
    - Secondary cooling
    - Casting speed
    - Hard chemistry
    - Exceptional Answers:
      - Hard chemistry

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