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# MF 5103 Advances in Casting and Welding Important 2 Marks Questions

### <u>Unit I</u>

- 1. Name any four factors that have to be considered while designing for minimum stresses.
- 2. What is meant by solidification time?
- 3. State Chvorinov's rule for casting.
- 4. Mention the main requisites of a gating system.
- 5. What is the effect of cooling rate on the properties of casting?
- 6. Define the term 'Fettling'.
- 7. What are the functions of riser used in casting?
- 8. What are the importance which be placed by the well-designed gating system in casting?
- 9. What are the effects of mould materials of fluid flow and heat transfer?
- 10. Why is Bernoulli's equation important in casting?

### Unit II

- 1. State any four differences between progressive and directional solidifications.
- 2. Name any four casting defects, their causes and remedies.
- 3. Define shrinkage in cast metals.
- 4. List the defects caused by the molten metal in casting.
- 5. Define the term Alloy.
- 6. What is meant by Castability?
- 7. Draw the casting curve of a pure iron.
- 8. Discuss sand reclamation briefly.
- 9. How centrifugal casting differs from gravity die casting?
- 10. What is the difference between the solidification of pure metals and metal alloys?

# Unit III

- 1. List any four applications of centrifugal casting.
- 2. State any four advantages of CAD in casting.
- 3. Name any four dust collecting equipment used in foundry.
- 4. Name any two advantages of co2 moulding.
- 5. What are the three methods of centrifugal casting?
- 6. What are the limitations of die casting?
- 7. Mention any three-material handling equipments used in a mechanized foundry.
- 8. When does casting become inevitable?
- 9. List out the various types of allowances of casting during solidification.
- 10. Why are cast irons easy to cast than steels?

#### **Unit IV**

- 1. Name any four methods of testing weldment.
- 2. State any four differences between electron welding and laser beam welding.

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- 3. List out the various zones found in a typical fusion weld.
- 4. Enlist the reasons for conducting mechanical tests on weldments or weld joints.
- 5. What is Lamellar tearing?
- 6. Define weldability and list the factors affecting weldability of steels.
- 7. What is hydrogen embrittlement?
- 8. What is meant by degasification in metal casting process?
- 9. What are the functions of a riser?
- 10. What are the importance of stress-relief heat treatment on weldments?

#### Unit V

- 1. State any four disadvantages of laser beam welding.
- 2. Name any four welding defects, their causes and remedies.
- 3. Compare electron beam welding with laser beam welding.
- 4. Difference between wet underwater and dry underwater welding.
- 5. What are the differences between TIG and MIG welding?
- 6. State the principle of 'Plasma welding'.
- 7. Mention any two advantages and limitations of explosive welding.
- 8. What is vapour phase soldering?
- 9. Why risers are not used in the die casting?
- 10. What is meant by progressive solidification?