

ROLL NO :

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Total number of pages:[2]

Total number of questions:09

B.Tech. -ME/ 3rdSem

Manufacturing Process- I

Subject Code :PE-209

Paper ID : 10721

Batch:2004 onwards/2011onwards/2015 onwards[Tick Relevant]

Time allowed: 3 Hrs

Max Marks:60

Important Instructions:

- Section A is compulsory
- Attempt any four questions from section B
- Attempt any two questions from section C
- Assume any missing data
- Additional instructions, if any

PART A (2×10)

Q. 1. Answer in brief:

- (a) How would you define gas welding?
- (b) Why does porosity have detrimental effect on mechanical properties of castings?
- (c) Why quality of weld is produce better in submerged arc welding?
- (d) How would you define arc stability?
- (e) How would you explain the difference between short and long freezing range?
- (f) How would you explain the difference between short and long freezing range?
- (g) How would you explain core baking?
- (h) How would you explain welding joint embrittlement?
- (i) How would you explain the functions of filler material?
- (j) How would you riser?

PART B (5×4)

- Q. 2. How would you explain Thermit welding?
- Q. 3. How would you explain the process, advantages and limitations of centrifugal casting process?
- Q. 4. How would you explain the solidification process Steel?
- Q. 5. How would you differentiate brazing & soldering?
- Q. 6. How would you explain the factors through which directional solidification of casting can be controlled?

PART C (10×2)

- Q. 7. How would you explain the different elements of a gating system & how riser & gating system is designed?
- Q. 8. How would you explain with the help of diagram resistance welding and also explain its types?
- Q. 9. How would you explain the equipment required for oxy-acetylene welding and cutting?