WE-102

B. Tech. (Semester I) Examination - 2011
Manufacturing Processes

Time: Three Hour Maximum Marks: 50

Note: Attempt all sections.

Section- A

Note: Attempt any ten questions. Each question carries two (2x10=20)marks.

- Describe with suitable examples plant layout and its different types and applications?
- What is resilience? When is this property important for a material? ri
- Describe the basic differences among the three types stailess steel. 3
- Why normalizing is done. Explain the process normalizing. 4

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olding process. Also give their applications?

- Short Note on (i) Galv
-) Galvanizing
 i) Electroplating
- List five typical components produced by the casting
- What is the object of heat treatment the metal and alloys?

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- Explain with the help of neat sketch the parts of a lathe? 6
- 10. Define the terms
- Ceramics and their applications
- Composite material and their applications
- Based on % of Carbon. Classify Carbon Steels. How do stainless steel become stainless?
- Differentiate and Explain
- Blanking and Piercing
- Quenching and Tempering
- Explain moulding sands and its decimbly mornalized
- Describe casting defect with neat sketch and their cenedies?

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What are the properties which non-ferrous metals possess are not available in ferrous metals?

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Section- B

Each question carries (15x2=30)Attempt any two questions. fifteen marks. Note:

- With the help of schematic sketch describe the basic Also describe the difference in operation between shaper working principle and important parts of shaper machine. and Witnes.
- suitable applications the working principle of resistance How will you classify the welding process? Explain with welding. 3
- Mention advantages and disadvantages and applications each step involved in powder metallurgy manufacturing processes. Describe briefly of powder metallurgy. 3
- Describe the various kinds of pattern in use. What are the allowances provided? When making a pattern? How do the pattern differ from the casting.

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