

(Following Paper ID and Roll No. to be filled in your Answer Book)

Paper ID : 140112

Roll No.

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B.Tech.

(SEM. I) THEORY EXAMINATION, 2015-16

MANUFACTURING PRACTICES

[Time:3 hours]

[Total Marks:100]

Section-A

1. Attempt All parts. All parts carry equal marks. Write answer of each part in short. (2x10=20)
- (a) What do you mean by toughness of material?
 - (b) What are plain carbon steels?
 - (c) Write one application of grey cast iron.
 - (d) What do you mean by least count of measuring instruments?
 - (e) What is recrystallization?
 - (f) Define Galvanizing process.
 - (g) Define spring back in sheet metal operations.

- (h) What is the difference between drilling and boring?
- (i) What is the difference between the consumable and non-consumable electrode?
- (j) What is the function of Riser in casting?

Section-B

Attempt **any five** questions from this section. (10×5=50)

2. Explain in detail the objectives of workshop technology?
3. Explain various types of manufacturing processes with example.
4. Explain with diagram the resistance welding with example.
5. With a neat sketch, explain the specification of lathe.
6. Compare cold working and hot working processes.
7. Explain the difference between punching and blanking operation.
8. What are differences between straight peen and cross peen hammer?
9. What is the difference between up and down milling? Give example.

Section-C

Answer **any two** questions from this section: (15×2=30)

10. Explain the general properties applications and differences between low carbon steel, medium carbon steel and high carbon steel.
11. List down the various operations performed on vertical milling machine.
12. Explain with diagram, the construction details of cupola furnace.

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