

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

PAPER ID : 1288

Roll No.

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B. Tech.

(Semester II) Even Semester Theory Examination, 2012-13

MANUFACTURING PRACTICES

Time : 2 Hours]

[Total Marks : 50

Note : Attempt questions from each Section as per instructions.

Section-A

Attempt *all* parts of this question. Each part carries 1 mark. $1 \times 10 = 10$

1. (a) What are the different types of files used in Fitting Shop?
- (b) Name the common materials used for forging.
- (c) Make a list of different cutting tools used in Machine shop.
- (d) What is the difference between piercing and blanking?
- (e) What are the desired properties of moulding sands?

Section-B

Attempt any *three* parts of this question. Each part carries 3 marks. $5 \times 3 = 15$

2. (a) How do you classify Carpentry joints? Draw and explain any two Carpentry joints.
- (b) Compare AC and DC welding.
- (c) What are different sheet metal operations? Explain any two with neat sketch.
- (d) Draw a block diagram of lathe machine. Explain different operations performed on lathe machine.
- (e) Explain different materials used for pattern in casting. Give advantages and disadvantages.

Section-C

Attempt *all* questions of this Section. Each question carries 5 marks. $5 \times 5 = 25$

3. What type of operations are performed in Smithy shop? Explain any one with neat diagram.

Or

Draw and explain the following :

Tapping, Dieing, Draw filling.

4. Explain different forging defects.

Or

Differentiate Soft wood and Hard wood.

5. Write a note on any two of the following :

- (i) Metallurgy of weld
- (ii) Straight and reverse polarity in Arc welding
- (iii) Spot welding.

6. Explain in brief different hand tools used in sheet metal shop.

Or

Explain the following terms :

Machine tool, Cutting speed, Feed.

7. Write a note on any two of the following :

- (i) Moulding sand types
- (ii) Pattern making allowances
- (iii) Up Milling and Down milling.