



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

PAPER ID : 199121

Roll No.

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B.Tech.

(SEM. I) (ODD SEM.) THEORY
EXAMINATION, 2014-15
MANUFACTURING PRACTICES

Time : 3 Hours]

[Total Marks : 80

Note: Attempt questions from each section as per instructions.

Section-A

Attempt all parts of the following: 2x8=16

1. (a) Differentiate between Soft and Hard wood.
- (b) Name the various operations which are carried out in Fitting Shop.
- (c) List out the various hand tools which are used in Black Smithy Shop.
- (d) How is surface prepared for Welding?
- (e) What is Anvil? Name its different parts.
- (f) How will you select the Machining variables for the Metal cutting?
- (g) What is the sand Additive? Why they are added up in preparation of Moulding sand?
- (h) Differentiate between Machine and Machine tools with suitable examples.

Section - B

Attempt any four parts of the following: **4x6=24**

- 2
- List various types of wood working process. Explain any two.
 - Name and explain the different types of chisels used in fitting work with the help of neat sketches. Give their uses.
 - Draw the block diagram of lathe and mention all operations which can be carried out on it.
 - How does the selection of materials decide for Forging? List the various possible Forging operations. Explain any two.
 - Define the term Welding. How will you classified the Welding process? Explain the working of Spot Resistance Welding.
 - Give the list of metals commonly used in Sheet Metal work and give a brief account of each.

Section-C

Attempt any five parts of the following: **5x8=40**

- 3.
- Why seasoning of Wood is carried out? Name the various processes of seasoning. Explain any one with sketch.
 - How do you classify Drills? Give advantages and disadvantages of it. Sketch the twist drill.
 - What do you mean by Electric Arc Welding? How is it classified? Explain the principle of Metal Electrode Arc-Welding in details with neat sketches.
 - Give a list of the different operations performed in Sheet Metal work and describe any two of them.

- What is the working principle of Shaper? Describe the important parts of Shaper machine. Also mention the name of shapes which can be generated on workpieces.
- Why pattern is made bigger than casting? Name the various types of Patterns. Explain any one with neat sketch.
- Why allowances are provided with pattern? Explain all types of Pattern allowances with neat sketches.
- Write short notes on the following:
 - Sheet metal working Machines
 - Defects in Forging
 - Heating devices used in Black Smithy Shop