



Printed Pages : 3

WS – 201

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

PAPER ID : 4034

Roll No.

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B. Tech.

(SEM. II) EXAMINATION, 2006-07

WORKSHOP PRACTICE*Time : 2 Hours]**[Total Marks : 50*

Note : Attempt **all 5** questions as instructed. marks are indicated therein.

1 Part (a) is **compulsory**. Attempt **three** more parts from the rest of the following :

(a) Write short notes on any **two** of the following: **4**

(i) Classification of manufacturing process

(ii) Machinery process

(iii) Stiffness

(iv) Toughness.

(b) Differentiate between “Malleability” and “Ductility”. **3**

(c) Explain the term “Fatigue”. **3**

(d) How cast iron differs from steel. **3**

(e) What is nodular cast iron? Give its applications. **3**

(f) What are plain carbon steels? How are they classified? **3**

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1

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- 2** Part (a) is compulsory. Attempt **three** more parts from the rest of the following :
- (a) Write short notes on any **two** of the following : **4**
 - (i) High speed steel
 - (ii) Brass
 - (iii) Bronze.
 - (b) What are the influences of other elements in plain carbon steels? **3**
 - (c) Discuss main characteristics of non-ferrous alloys due to which they are preferred over ferrous alloys inspite of their high costs. **3**
 - (d) What are the common defects found in timber? **3**
 - (e) What are the differences between hard and soft wood. **3**
 - (f) What are the common auxiliary materials used in carpentry work? **3**
- 3** Attempt any **three** parts of the following :
- (a) What are the different types of wood working machines used in modern wood work? **4**
 - (b) With the help of suitable sketch explain the construction and working of any **one** of the following : **4**
 - (i) 'V' Block
 - (ii) Surface Plate
 - (iii) Hand vice.
 - (c) What is a bevel square and where it is used? **4**
 - (d) What are the advantages of twist drills over flat drills? **4**
 - (e) What are the different process done in bench work? **4**

- 4** Attempt any **two** parts of the following :
- (a) Give a comprehensive list of the different operations performed in sheet metal work and describe any two of them. **6**
 - (b) Explain and describe any **one** of the following : **6**
 - (a) Arc welding
 - (b) Resistance welding.
 - (c) Describe the method of any acetylene cutting. **6**
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