



(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**
- Classification of manufacturing process
 - Machinery process
 - Stiffness
 - 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**

- 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**
- High speed steel
 - Brass
 - 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. <https://www.aktuonline.com> **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**
- ‘V’ Block
 - Surface Plate
 - 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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