

**E-934**

**B. E. IInd Semester Examination, May – 2019**

**WORKSHOP COMPT.**

**(Main Exam)**

**CSE, ECE, EE**

**Time : Three Hours ]**

**[ Maximum Marks : 60**

**Note :** Attempt *all* questions in **Section – A**, any *four* questions from **Section – B** and *three* questions from **Section – C**.

**SECTION – A**

**[ Marks : 1 × 10 = 10**

**Note :** Attempt *all* parts.

1. Which of the following is an example of soft wood ?  
(a) Sal (b) Oak  
(c) Deodar, Kail, chir, fir (d) Mahogany
2. Which of the below changes do not occur after seasoning ?  
(a) Increase durability (b) Decrease stiffness  
(c) Workable timber (d) Reduction in weight
3. Thermit welding is a form of :  
(a) Resistance welding (b) Gas welding  
(c) Fusion welding (d) Arc welding
4. The most commonly used flame in gas welding is :  
(a) Neutral (b) Oxidizing  
(c) Carburising (d) All of above
5. To bend the sheet metal by 180° which hammer is used ?  
(a) Mallet (b) Ball peen hammer  
(c) Sledge hammer (d) None of the above

**P. T. O.**

6. Internal screw threads are cut by hand using :
- (a) Twist drills (b) Dies  
(c) Chisel (d) Taps
7. Cast Iron is forgeable :
- (a) True (b) False
8. In forging process, metals are shaped by :
- (a) Impact (b) Cohesion  
(c) Compression (d) Tension
9. Which type of lathe is also known as centre lathe ?
- (a) Engine lathe (b) Bench lathe  
(c) Room lathe (d) Capstan lathe
10. Quick return mechanism is responsible for ram movement.
- (a) True (b) False

**SECTION – B**[ Marks :  $4 \times 5 = 20$  ]

*Note : Attempt any four parts.*

1. What are the different types of wood ? Explain their properties.
2. Explain briefly different types of welding joints with neat sketch.
3. Compare hot working and cold working process with suitable examples.
4. List the various kinds of pattern used in casting. Also explain briefly the different pattern allowances.
5. List the various parts of a lathe machine. Also explain any five operation performed on the lathe machine.

## SECTION - C

[ Marks :  $3 \times 10 = 30$  ]

*Note :* Attempt any *three* parts.

1. Explain the principle of resistance welding. Also discuss various welding defect and their remedies.
  2. How the moulding sands classified ? Explain briefly the moulding sand properties.
  3. What is the principle of working of a shaper ? How the shapers are specified ? Explain the crank and slotted lever mechanism used in shaper machine with neat sketch.
  4. Draw the neat sketch of a 'Twist Drill' with nomenclature. Explain briefly the operation performed an a drilling machine.
-