Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov/Dec– 2017**

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|  |  |  |  |
| **Code :** | **14ME2047** | **Duration :** | **3hrs** |
| **Sub. Name :** | **WELDING TECHNOLOGY** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | How are Welding processes classified? Elaborate. | CO1 | 8 |
| b. | Discuss the Safety recommendation in welding and cutting operation. | CO1 | 12 |
| (OR) | | | | |
| 2. | a. | Describe the welding processes. | CO1 | 10 |
| b. | Explain types of Consumable electrodes available. | CO1 | 10 |
|  |  |  |  |  |
| 3. | a. | Draw a table of Supplementary symbols. | CO1 | 10 |
|  | b. | Discuss the codes of American welding society. | CO1 | 10 |
| (OR) | | | | |
| 4. |  | Explain the Characteristics of welded joints. | CO1 | 20 |
|  |  |  |  |  |
| 5. |  | Explain any two process of welding Gray cast iron. | CO1 | 20 |
| (OR) | | | | |
| 6. |  | Outline the methods to reduce welding stresses to a minimum. | CO1 | 20 |
|  |  |  |  |  |
| 7. | a. | Label the common causes and remedies of cracking, inadequate joint preparation, slag inclusions, porosity, incomplete fusion. | CO1 | 18 |
|  | b. | Name the three stages of weld inspection and testing. | CO1 | 2 |
| (OR) | | | | |
| 8. |  | Explain any one Destructive test applied to welded joints. | CO1 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Define the Friction welding and Inertia welding with sketches. Explain their applications, advantages and disadvantages. | CO1 | 20 |

ALL THE BEST