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



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

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|  |  |  |  |
| **Code :** | **17ME1001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BASIC MECHANICAL ENGINEERING** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** |  | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Discuss briefly about the working principle of a two stroke petrol engine with sketches? Discuss its advantages and disadvantages also? | CO1 | 20 |
| (OR) | | | | |
| 2. |  | List the classification of boilers? Explain any one type of water tube boiler with a sketch? | CO2 | 20 |
|  |  |  |  |  |
| 3. |  | Explain the working principle of a nuclear power plant with a sketch? | CO3 | 20 |
| (OR) | | | | |
| 4. |  | Discuss the working principle of a solar power plant with a sketch? | CO3 | 20 |
|  |  |  |  |  |
| 5. |  | Discuss the composition, properties, and applications of any two ferrous metals and alloys? | CO4 | 20 |
| (OR) | | | | |
| 6. |  | Discuss the composition, properties, and applications of any two non ferrous metals and alloys? | CO4 | 20 |
|  |  |  |  |  |
| 7. |  | Explain briefly about rolling, forging, and extrusion process with sketches? | CO5 | 20 |
| (OR) | | | | |
| 8. |  | Discuss the various types of drilling machines with sketches? | CO5 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. |  | Discuss briefly about CAD and CAM? | CO6 | 20 |

ALL THE BEST