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



**End Semester Examination – Nov / Dec – 2019**

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|  |  |  |  |
| **Code :** | **14ME2004** | **Duration :** | **3hrs** |
| **Sub. Name :** | **MANUFACTURING PROCESSES** | **Max. Marks :** | **100** |

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

|  |  |  |  |  |
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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Explain the process of investment casting with neat sketches: List out its advantages and disadvantages. | CO1 | 20 |
| **(OR)** | | | | |
| 2. |  | Highlight the different types of patterns used in casting processes. | CO1 | 20 |
|  |  |  |  |  |
| 3. | a. | Briefly explain the various defects in rolling process. | CO1 | 10 |
| b. | Describe the different methods of tube drawing process. | CO1 | 10 |
| **(OR)** | | | | |
| 4 |  | Describe the sheet metal bending process, its types and applications. | CO1 | 20 |
|  |  |  |  |  |
| 5. |  | Discuss stretch forming and shearing processes in detail. | CO1 | 20 |
| **(OR)** | | | | |
| 6. |  | Describe the steps involved in deep drawing of sheet metal. | CO1 | 20 |
|  |  |  |  |  |
| 7. |  | Explain the MIG welding process in detail with mandatory drawing. | CO1 | 20 |
| **(OR)** | | | | |
| 8. |  | Explain the TIG welding process with neat sketch. Also discuss its applications. | CO1 | 20 |
|  | | **Compulsory**: |  |  |
| 9. |  | With a flow chart, explain the various steps involved in the manufacture parts by powder metallurgy. | CO1 | 20 |