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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2016**

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| --- | --- | --- | --- |
|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **14ME2048** | **Duration :** | **3hrs** |
| **Sub. Name :** | **Foundry Technology** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Explain the steps involved with sand casting with neat sketch. | CO1 | **20** |
|  | | | | |
| 2. |  | Discuss the Types of pattern Allowances with required Data. | CO1 | **20** |
| 3. |  | Draw the Comparision table to explain the Types of sand mould | CO2 | **20** |
|  | | | | |
| 4. |  | What is the Influence of Ingredients on properties of Moulding sand? | CO2 | **20** |
| 5. |  | Explain the Injection Moulding with suitable sketch. | CO3 | **20** |
|  | | | | |
| 6. |  | Draw and Explain the Investment Casting Process. | CO3 | **20** |
| 7. |  | Casting defects. Explain it with required sketch. | CO4 | **20** |
| **(OR)** | | | | |
| 8. |  | Draw your own Foundry Layout for implementing Automation in it. | CO4 | **20** |
|  | | **Compulsory:** |  |  |
| 9. |  | Explain the constructional Feature and Working Principle of Cupola Furnace. | CO5 | **20** |

ALL THE BEST