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 – April/May – 2017**

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| **Code :** | **14ME2048** | **Duration :** | **3hrs** |
| **Sub. Name :** | **FOUNDRY 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. |  | Explain the Design components of Sand mould with neat sketch. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Discuss the Types of pattern Allowances with required Data. | CO1 | 20 |
| 3. |  | Draw the Comparision table to explain the Types of sand mould. | CO1 | 20 |
| (OR) | | | | |
| 4. |  | What is the Influence of Ingredients on properties of Moulding sand? | CO1 | 20 |
| 5. |  | Explain the Shell Moulding process with suitable sketch. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Draw and Explain the Investment Casting Process. | CO2 | 20 |
| 7. |  | Explain about the destructive and non destructive methods of inspecting the castings with required sketches. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | With a neat sketch explain the various zones of a Cupola furnace. | CO2 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Explain in detail the plant layout and automation principle of a foundry shop. | CO2 | 20 |

ALL THE BEST