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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

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

**Supplementary Examination – June – 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. |  | Questions | Course  Outcome | Marks |
| 1. |  | Describe the various steps involved in casting process and the advantages and limitation of casting process. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Explain the types of patterns and give details about any three types of patterns. | CO1 | 20 |
|  |  |  |  |  |
| 3. |  | Describe the influences of ingredients on properties on molding sand. | CO1 | 20 |
| (OR) | | | | |
| 4. |  | Explain the clay content test, fineness test and moisture content test on molding sand. | CO1 | 20 |
|  |  |  |  |  |
| 5. |  | Describe the principle of centrifugal casting with a neat sketch. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | With a sketch explain the principle of investment casting process. | CO2 | 20 |
|  |  |  |  |  |
| 7. |  | With a neat sketch explain the various zones of a Cupola furnace. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | Explain in detail the various casting defects and causes for casting defects. | CO2 | 20 |
|  | | **Compulsory:** |  |  |
| 9. |  | Discuss in detail the design procedure of a gating system and the different types of gating systems. | CO2 | 20 |

ALL THE BEST