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– 2017**

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| **Code :** | **15ME3007** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ADVANCED TOOL DESIGN** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
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| **Q. No.** |  | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Explain the geometry and nomenclature of a single point cutting tool. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | Evaluate the design steps of Thread milling cutter for Operational basis. | CO1 | 20 |
|  |  |  |  |  |
| 3. |  | Explain gage limit and tolerance with tabular representation. List different gages for determining the geometrical parameter. | CO1 | 20 |
| (OR) | | | | |
| 4. |  | Explain with sketches of locating pin and conclude its principle. | CO2 | 20 |
|  |  |  |  |  |
| 5. |  | Explore the design of Drill bushings and its significance in manufacturing. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Distinguish between internal and external Broaching fixture. | CO2 | 20 |
|  |  |  |  |  |
| 7. |  | Explain the analytical function of 5- point principle towards fixturing. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | Discuss on the circular and rectangular metal flow using appropriate geometrical function. | CO2 | 20 |
|  | |  |  |  |
|  | | **Compulsory:** |  |  |
| 9. |  | Discuss the coordinate system employed in CNC machining centers. | CO3 | 20 |

ALL THE BEST