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 :** | **14ME2021** | **Duration :** | **3hrs** |
| **Sub. Name :** | **MODERN VEHICLE 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 in detail about the components of automobile with a neat sketch. | CO1 | 20 |
| (OR) | | | | |
| 2. | a. | Explain about the fuel supply system in SI Engine with a neat sketch. | CO2 | 10 |
|  | b | Write in detail about the fuel supply system in CI Engine with a neat sketch. | CO2 | 10 |
| 3. | a. | Briefly explain about the steering geometry with a neat sketch. | CO2 | 20 |
| (OR) | | | | |
| 4. |  | Write in detail about the suspension system with a neat sketch. | CO2 | 20 |
| 5. |  | Draw a neat sketch and explain about the multiplate clutch and enumerate applications,advantages and disadvantages. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Briefly explain about the ABS with a neat sketch and enumerate applications, advantages and disadvantages. | CO2 | 20 |
| 7. | a. | Explain in detail about the sliding mesh gear box with a neat sketch and its applications. | CO2 | 14 |
|  | b. | Write short notes on differential. | CO2 | 6 |
| (OR) | | | | |
| 8. | a. | With a neat sketch and explain about the synchromesh gear box and its applications. | CO2 | 14 |
|  | b. | Write short notes on universal joint. | CO2 | 6 |
|  | | **Compulsory:** |  |  |
| 9. |  | Explain the following with a neat sketch. |  |  |
|  | a. | CRDI | CO2 | 10 |
|  | b. | MPFI | CO2 | 10 |

ALL THE BEST