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 :** | **14ME2017** | **Duration :** | **3hrs** |
| **Sub. Name :** | **BASIC AUTOMOBILE ENGINEERING** | **Max. marks :** | **100** |

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

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| Q. No |  | Questions | Course  Outcome | Marks |
| 1. |  | Explain about the single plate clutch with a neat sketch. | CO1 | 20 |
| (OR) | | | | |
| 2. |  | What are the types of steering system? Explain rack and pinion steering system. | CO1 | 20 |
| 3. |  | Explain sliding mesh gear box with a neat sketch. | CO1 | 20 |
| (OR) | | | | |
| 4. |  | Derive an expression of a constant pressure cycle with Pv and Ts diagram. | CO4 | 20 |
| 5. |  | With a neat sketch and explain the working principles of four stroke petrol engine. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | Write in detail about the various parts of the engine with a neat sketch. | CO2 | 20 |
| 7. |  | Give the abbreviation of MPFI and explain with a neat sketch. | CO2 | 20 |
| (OR) | | | | |
| 8. |  | Explain the working of solex carburetor with a neat sketch. | CO3 | 20 |
|  | | **Compulsory**: |  |  |
| 9. |  | Compare and write a case study of recent technology in Maruti Suzuki and Hyundai cars in automobile industry. | CO5 | 20 |

ALL THE BEST