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



**End Semester Examination – Nov/Dec– 2017**

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|  |  |  |  |
| **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. | a. | Draw an automobile chassis layout and explain. | CO1 | 10 |
| b. | Write in detail about the fuel supply system in C.I engine. | CO3 | 10 |
| (OR) | | | | |
| 2. | a. | Explain the classification of automobile? | CO1 | 10 |
| b. | Classify the lubrication system and explain in detail. | CO2 | 10 |
|  |  |  |  |  |
| 3. |  | Briefly explain about the steering geometry with a neat sketch. | CO2 | 20 |
| (OR) | | | | |
| 4. | a. | Write short notes on hydraulic steering with neat sketch. | CO2 | 10 |
|  | b. | Enumerate the different types of tyres with a neat sketch. | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Explain about the multiplate clutch with neat sketch. | CO2 | 10 |
|  | b. | Write short notes on torque converter? | CO2 | 10 |
| (OR) | | | | |
| 6. |  | With neat sketch and explain about the ABS? | CO2 | 20 |
|  |  |  |  |  |
| 7. | a. | Briefly explain about the constant mesh gear box with neat sketch. | CO2 | 10 |
|  | b. | Write short notes on hydromatic transmission system? | CO2 | 10 |
| (OR) | | | | |
| 8. | a. | Write in detail about Hotchkiss drive with neat sketch. | CO2 | 10 |
|  | b. | Describe in detail about the four wheel drive with neat sketch. | CO1 | 10 |
|  | |  |  |  |
|  | | **Compulsory:** |  |  |
| 9. |  | Describe the following  i. MPFI ii.CRDI | CO3 | 10+10 |

ALL THE BEST