

T35/T51/TML102/EE/20160711

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
-

1. Solve any **four** sub-questions.
 - a) Write down the types of: 5
 - i) Gasket
 - ii) Adhesives
 - b) Explain use of conductors and insulators in Automobile electrical system. 5
 - c) Explain the series and parallel circuits. 5
 - d) Write a short note on “Thread Repairing”. 5
 - e) Explain the term “Electromagnetism”. 5
2. Solve any **four** sub-questions.
 - a) Explain the Battery Drain Test procedure in short. 5
 - b) Define 5
 - i) Rating of battery
 - ii) Battery capacity
 - c) Discuss the construction and operating principles of a starter motor. 5
 - d) Explain the Testing of Electronic Circuit. 5
 - e) Explain the use of microprocessor in automobile. 5

3. Solve any **four** sub-questions.
- a) What are the main requirement of vehicle charging system? 5
 - b) Explain the construction of Head light. 5
 - c) List out various gauges used in electrical system of automobile. Explain working of any one. 5
 - d) Explain the maintenance of lighting in automobile. 5
 - e) What are the checks are necessary in charging system? 5
4. Solve any **four** sub-questions.
- a) Explain “Electronic ignition system”. 5
 - b) What are the General Testing carried out for ignition system. Explain in short. 5
 - c) What is ignition timing? How the ignition timing to be set. 5
 - d) Explain visual inspection of ignition system. 5
 - e) Explain the operation of NPN and PNP transistors. 5

