

Vellore-632 014, Tamil Nadu, India.

SCHOOL OF MECHANICAL ENGINEERING

Continuous Assessment Test-II, March 2020 B.TECH. (Automotive), Winter Semester 2019-20

(Closed book and Notebook Exam)

Course Code

MEE 2042

Duration

: 90 Minutes.

Course Name

Two and Three Wheeler

Max. Marks: 50

Faculty-In-Charge: Prof.B.Ashok

Slot

: B2

Answer all Questions (5x 10 = 50 Marks)

- 1. Enumerate the various components required to convert the carburetor engine into an electronic fuel injection system in a commuter motorcycle vehicle. Explain the working of such system to achieve the BS VI emission norms with relevant sketch.
- 2. Discuss the considerations and requirements of deciding the transmission system in a motorcycle. Explain the working principle of gear box employed in Hero Splendor vehicle with a neat schematic sketch.
- Compare the advantages and disadvantages of air-cooled with liquid cooled engine. Explain the working principle of liquid cooled engine in a motorcycle with neat schematic sketch.
- What are the different types of ignition systems? Explain the construction and working principle of ignition system in motorcycle engine with relevant sketch.
- (a) Explain the construction and working principle of a transmission system followed in scooter vehicles with relevant sketch. (6 marks)
 - (b) Discuss the working of the clutch mechanism of the scooter vehicle with its characteristics features. (4 marks)