Reg. No.										
----------	--	--	--	--	--	--	--	--	--	--



VI SEMESTER B.TECH. (MECHATRONICS ENGINEERING) END SEMESTER EXAMINATIONS, MAY/JUNE 2017

SUBJECT: Automobile Engineering [MTE4001]

REVISED CREDIT SYSTEM

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates: **Answer all the questions.** Explain the purpose, function and terminologies of Piston with sketch. 4 1B. Discuss VIS technology used in the vehicle. 2 **1C.** With sketch explain the construction and working of electrically operated fuel 4 pump. 2A. Sketch and explain the working of fuel injector used in diesel engine. 3 2B. With schematic diagram explain the working of battery ignition system. 4 2C. Discuss on mist lubrication system and mention its disadvantages. 3 3A. Explain the construction and working of cone clutch with sketch. 5 3B. Describe with sketch construction and working of sliding gear box. 5 4A. Describe the necessity, function and working of each parts of a drive line 3 system. Sketch the steering linkages for rigid axel suspension system. 3 4C. Compare rigid axel and independent suspension system. 4 5A. With the sketch explain the working of standard Bendix drive for starter 5 motor. **5B.** Sketch and explain the construction and working of fixed caliper disk brake. 5

MTE 4001 Page 1 of 1