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IV SEMESTER B.TECH (MECHANICAL/IP ENGG.) END SEMESTER EXAMINATIONS, APRIL/MAY 2017

SUBJECT: AUTOMOBILE ENGINEERING [MME 2204] REVISED CREDIT SYSTEM

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

❖ Answer **ALL** the questions.

1A.	Explain the term Piston slap. With a sketch, explain a special purpose piston used to control piston slap.	04
1B.	How the charge enters the combustion chamber. With sketch, explain the construction of the component used to allow charge to enter the combustion chamber.	03
1C.	List the factors affecting the ignition advance.	03
2A.	With a neat sketch, explain the working of battery ignition system for a 6 - cylinder engine.	04
2B.	List down the purposes of lubrication. Explain Splash lubrication system.	03
2C.	With a neat sketch explain the working of a single plate clutch	03
3A.	With the help of a schematic arrangement, explain the constant mesh gear box.	04
3B.	List the functions of a propeller shaft in an automobile.	02
3C.	With a neat sketch, explain the various parts of a differential mechanism.	04
4A.	List the functions performed by an effective steering system in an automobile.	04
4B.	Explain the Toe-in & Toe-out concept in an automobile, using appropriate ME 2204 Page 1 of 2	03

sketches.

4C.	List the various functions and requirements of a suspension system.	03
5A.	Explain with suitable sketches, the working of a hydraulic shock absorber.	03
5B.	List the various requirements of an effective braking system.	03
5C.	Compare and contrast disc brakes and drum brakes.	04

MME 2204 Page 2 of 2