Reg. No.					



## IV SEMESTER B.TECH. (OPEN ELECTIVE) END SEMESTER EXAMINATIONS, APRIL 2018

## SUBJECT: INTRODUCTION TO AUTOMOBILE ENGINEERING

[AAE 3283]

## REVISED CREDIT SYSTEM (30/04/2018)

Time: 3 Hours MAX. MARKS: 50

Instructions	to Candidates:	
Instructions	to Canoloaies:	

Answer ALL the questions.Missing data may be suitable assumed.

L	
1A.	Compare external combustion engine to internal combustion engine.
1B.	Sketch and explain the construction and working of 2 stroke petrol engines.
1C.	Sketch and label the engine connecting rod.
2A.	Contrast the differences between Carburetion and fuel injection.
2B.	Draw a neat sketch of electronic fuel injector and label the parts.
2C.	Sketch and explain the layout of common rail injection.
3A.	List the components of e-CVT transmission system.
3B.	Sketch and explain the layout of thermosyphon type cooling system.
3C.	Sketch and explain the construction of synchronizer used in synchro mesh
	gear box.
4A.	With a neat sketch explain splash lubrication system.
4B.	List the components of power steering system.
4C.	Why is coefficient of friction important in brakes? Sketch and discuss the
	working of drum brake.
5A.	Sketch and discuss the construction of Mc pherson strut suspension
	assembly.
5B.	Compare radial ply tire to cross ply tire.
5C.	Sketch and explain the layout of battery ignition system.

AAE 3283 Page 1 of 1