



Wednesday, 26 April 2017

Reg.No.

Time:3 Hours		s: 100
√ √	Answer ANY FIVE full Questions. Missing data, if any, may be suitably assumed	
1 A)	Explain the working of Mechanical fuel pump, with the help of a neat sketch.	8
1 B)	With the help of a neat sketch, explain tickler method of starting	8
1 C)	List any four effects of excessive cooling.	4
2 A)	With the help of a neat sketch, explain the working of Dry sump lubrication.	10
2 B)	Explain Constant Mesh gear box with the help of a neat sketch and show the power flow path.	5
2 C)	Explain with a neat sketch, the working of Semi floating axle.	5
3 A)	Briefly discuss the working of sliding mesh gear box.	10
3 B)	With an example, explain how planetary gear box works.	5
3 C)	Discuss the mechanism of rack and pinion steering system.	5
4 A)	Sketch and explain MacPherson strut type of suspension system.	8
4 B)	With the help of a neat sketch, explain the operation of an Anti-lock Braking System.	4
4 C)	Explain construction and working of telescopic shock absorber system with the help of a neat diagram.	8
5 A)	Draw standard bendix drive of a starting system and explain briefly.	10
5 B)	Explain CDI electronic ignition system with help of a neat line diagram	10
6 A)	Sketch and explain the working of motor/ generator system.	10
6 B)	Sketch and explain TCS.	10
7 A)	Compare bevel gear with helical gear.	5
7 B)	Sketch and explain the Pressurized lubrication system.	10
7 C)	Write a note on engine coolant.	5
8 A)	Explain the principle of operation of charging system, with the help of a block diagram.	10
8 B)	What is the job of steering? Sketch the steering layout and list the functions of Steering System	10