

Code: 9A03606

B.Tech III Year II Semester (R09) Supplementary Examinations May/June 2017

AUTOMOBILE ENGINEERING

(Mechanical Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) How is the maintenance of oil filters achieved? Explain.
(b) Explain with a neat sketch, the working principle of Bypass type oil filter used in automobile.
- 2 (a) What are the functions of fuel feed system of an automobile?
(b) Explain with neat sketch, the working principle of individual pump and nozzle system.
- 3 (a) Describe briefly the various components of water cooling system.
(b) Describe with diagram, the battery coil ignition system.
- 4 (a) What is the cause of diesel smoke? Discuss the ways by which diesel smoke can be controlled.
(b) What is diesel odour? Explain the effects of different factors on the formation of odour in CI engines.
- 5 Explain briefly the overrunning clutch drive type starting mechanism.
- 6 Explain with a neat sketch, the working of differential of any four wheelers.
- 7 Explain the different types of steering linkages.
- 8 With a neat sketch, explain the construction and working of a hydraulic shock absorber.
