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B.Tech III Year II Semester (R09) Supplementary Examinations May/June 2016

AUTOMOBILE ENGINEERING

(Mechanical Engineering)

Time: 3 hours Max. Marks: 70

> Answer any FIVE questions All questions carry equal marks

- Explain with neat sketch the working principle of pressure lubrication systems.
 - What are the different methods of repairing the engine that has worm cylinder walls.
- What is the purpose of control rod in a diesel pump? How does it vary the fuel supply to the 2 (a) injector?
 - (b) Draw the layout of Diesel fuel feed system with Jerk type pump for a 4-cylinder engine.
- State the applications, advantages and disadvantages of air cooling system. 3
 - (b) Explain with a sketch the forced circulation system. State its merits and demerits.
- (a) Explain briefly the operation of the Bosch smoke meter. 4
 - (b) Explain briefly the mechanism of formation of nitric oxide.
- 5 Discuss with neat sketch, various types of Bendix drives in automobile engineering.
- With the help of a neat sketch, explain the construction and operation of a sliding mesh gear box. 6
- Describe with the help of a simple diagram the general arrangement of the steering system. 7
- 8 What are the various types of power brakes? Discuss their merits and demerits MANIFIES