

D 90298

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Name

Reg. No.....

**SEVENTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE
EXAMINATION, NOVEMBER 2015**

ME/PTME 09 705 L07—AUTOMOBILE ENGINEERING

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. Write the function of crank shaft.
2. Define the valve actuating mechanism.
3. What do you mean by MPFI ?
4. Mention the types of combustion chamber.
5. Define vacuum and air brakes.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

6. Discuss battery ignition system.
7. Explain about petrol injection systems.
8. Explain about centrifugal clutch with neat sketch.
9. Sketch and explain sliding mesh gear box.
10. Explain the pneumatic brake with neat sketch.
11. Discuss the wheel alignment.

(4 × 5 = 20 marks)

Part C

12. (a) Explain the various carburetors with neat sketches. (10 marks)

Or

- (b) Explain the unit type fuel injection system. (10 marks)

13. (a) (i) Sketch and explain the differential mechanism. (6 marks)

- (ii) Discuss the over drives. (4 marks)

Or

- (b) Sketch and explain the flash lubrication system and forced cooling system. (10 marks)

Turn over

14. (a) Explain the mechanical and hydraulic braking system.

(10 marks)

Or

(b) Compare various types of suspension with neat sketches.

(10 marks)

15. (a) Explain various steering mechanisms.

(10 marks)

Or

(b) Explain different features of wheels.

(10 marks)

[4 × 10 = 40 marks]