

F 3520

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Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Eighth Semester

Branch : Mechanical Engineering

AUTOMOBILE ENGINEERING (M)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]



Time : Three Hours

Maximum : 100 Marks

Part A

Answer all question.

Each question carries 4 marks.

1. Differentiate air injection and solid injection.
2. Explain the process of carburation ?
3. Explain the principle behind the working of a clutch.
4. Explain different types of rear axles.
5. Explain different types of suspension systems.
6. Write a short note on power steering.
7. Write short note on motor vehicle act.
8. Explain the characteristics of a good braking system.
9. Write short note on battery life of a vehicle.
10. Explain wheel balancing.

(10 × 4 = 40 marks)

Part B

Answer all questions.

Each question carries 12 marks.

11. Explain methods of vehicle construction.

Or

12. Describe cooling and lubrication systems in automotive engine.
13. Explain the functioning of helical spring and conical spring clutches.

Or

Turn over

14. Explain the working of :

- (a) Hydraulic torque converter. (b) Synchromesh gear box.

15. Explain the steering system with neat sketch.

Or

16. Explain the components of a suspension system with their functions.

17. Explain the working of booster, hydraulic and power brakes.

Or

18. Briefly explain the role, functions and requirements of wheels and tires in a vehicle.

19. Describe with the help of a neat sketch a battery ignition system.

Or

20. With a schematic layout explain the multipoint electronic fuel injection system.

(5 × 12 = 60 marks)

