



Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, April 2016
(2008 Scheme)**

08.803 : AUTOMOBILE ENGINEERING (M)

Time : 3 Hours

Max. Marks : 100

Instructions : Each question in Part A carries 4 marks. Answer all questions from Part A. Each question in Part B carries 20 marks. Answer any one question from each Module in Part B.

PART - A

1. Write a brief history of automobiles.
2. Describe various types of power units.
3. What is OHV and OHC valves ?
4. Briefly describe thermo siphon system.
5. Give the constructional details of multi plate clutch.
6. Explain the working of fluid coupling.
7. What is epicyclic gear box ?
8. What is king pin inclination ?
9. Enlist various types of springs used in suspension systems.
10. What are low polluting engines ?

(10×4=40 Marks)

PART - B

MODULE - I

11. a) Describe various types of lubricating systems. 10
- b) Discuss direct and indirect cooling. 10

P.T.O.





12. a) Differentiate between AC and SU carburetors. 10
b) Describe over running clutch. 10
- MODULE – II**
13. a) Explain the working of centrifugal clutch. 10
b) Describe the working of constant mesh gear box. 10
14. a) Explain the working of variomatic transmission. 10
b) Describe the working of four wheel drive. 10

MODULE – III

15. a) Explain the working of mechanical braking system. 10
b) Describe toe-in and toe-out. 10
16. a) Describe stratified charge engine. 10
b) Explain various types of wheels. 10
-