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1709

Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, April/May 2012
(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. How automobiles are classified ?
2. Describe various types of pistons.
3. What is variable valve timing ?
4. Briefly describe pressurized cooling system.
5. Give the constructional details of diaphragm clutch.
6. Explain the working of non slip differential.
7. What is hypoid drive ?
8. What is the function of recirculating ball in steering system ?
9. Describe briefly about tyres.
10. Discuss mist lubrication system.

(10×4=40 Marks)

PART – B

Module – I

11. a) Describe crank case, cylinder liners and cylinder head. 10
- b) Discuss requirement of cooling system. 10
12. a) Differentiate between MPFI and CRDI systems. 10
- b) Describe properties of good lubricants. 10



P.T.O.

**Module – II**

13. a) Explain the working of semi-centrifugal clutch. 10
b) Describe the working of synchro mesh gear box. 10
14. a) Explain the working of Hobbs and Smiths transmission. 10
b) Describe the working of semi automatic gear box. 10

Module – III

15. a) Explain the working of hydraulic braking system. 10
b) Describe various elements of steering geometry. 10
16. a) Discuss exhaust emission and pollution control. 10
b) Explain construction of chassis and frame. 10
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