



Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, May 2013
(2008 Scheme)**

08.803 : AUTOMOBILE ENGINEERING (M)

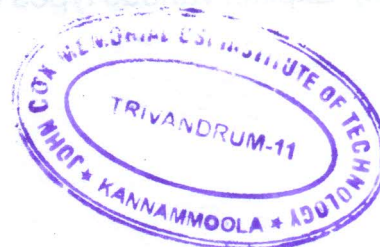
Time : 3 Hours

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. Describe various types of power units.
2. Describe various types of cylinder heads.
3. What is variable valve timing ?
4. Briefly describe about radiator cap.
5. Give the constructional details of dog clutch.
6. Explain the working of semi floating axles.
7. What is the function of differential ?
8. What is the function of worm and worm wheel in steering system ?
9. Describe briefly about dry sump lubrication system.
10. Discuss about spark plugs.



(10×4=40 Marks)

PART – B

MODULE – I

11. a) Describe pistons, piston pins, piston rings connecting rod and crank shaft. **10**
- b) Describe various elements of valve operating mechanism. **10**



12. a) Discuss the working of fuel gauge. 10
b) Describe the working of wind screen wiper. 10

MODULE – II

13. a) Explain the working of automatic clutch. 10
b) Describe the working of constant mesh gear box. 10
14. a) Explain the working of torque converter. 10
b) Describe the working of epicyclic gear box. 10

MODULE – III

15. a) Explain the working of master cylinder and wheel cylinder. 10
b) Describe various elements of steering system. 10
16. a) Discuss various methods of charge stratification. 10
b) Explain various types of wheels. 10