

FACULTY OF ENGINEERING**B.E. 4/4 (AE) I – Semester (Main) Examination, November 2013****Subject: Vehicle Maintenance****Time: 3 Hours****Max.Marks: 75****Note: Answer all questions from Part A. Answer any five questions from Part B.****PART – A (10x2.5 = 25 Marks)**

1. Illustrate a typical maintenance log sheet of a automobile.
2. Draw any two special tools used in the maintenance of an engine.
3. What are the parts of an engine fuel system that require regular maintenance?
4. What is cylinder honing process? Why it is done?
5. List out types of propeller shafts and differentials.
6. Explain over hauling of steering system.
7. What is the difference between alternator and DC generator?
8. List out dash board instruments.
9. Write the procedure for radiator maintenance.
10. List out anti-corrosion and anti-freeze additives.

PART – B (5x10 = 50 Marks)

- 11.(a) Draw a layout required for a garage attending various models of passenger cars. (5)
 (b) Explain any one of the following: (5)
 a) Road test report (b) Safety precautions in maintenance.
12. List out the types of vehicle maintenance practices and explain preventive maintenance with its merits and demerits. (10)
- 13.(a) Explain the inspection procedure for wear and taperness of a crank shaft. (6)
 (b) Describe the procedure for idle speed adjustment in carburetor. (4)
- 14.(a) Write the functions of: (5)
 i) Starter motor ii) Checking battery
 (b) Explain fault diagnosis and maintenance of modern electronic ignition system. (5)
15. Explain the following: (10)
 i) FIP calibration M/C
 ii) Wheel Balancing M/C
 iii) Cylinder Re-boring M/C
- 16.(a) Explain the step by step procedure for tyre rethreading. (5)
 (b) Name and explain the tests conducted for testing of injectors (any one). (5)
- 17.(a) Explain wheel alignment machine. (6)
 (b) Explain major and minor repairs of body and window glass. (4)