

FACULTY OF ENGINEERING

B.E. 4/4 (AE) I – Semester (Main) Examination, November/December 2012

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 (25 Marks)

1. State the salient features of a garage, service station and a specialist workshop?
2. A thick dark smoke is emitted from the exhaust pipe of old vehicles running on the roads. What could be the probable reason?
3. With the help of table write the trouble shooting of petrol engine fuel system.
4. Explain the inspection procedure of piston.
5. Explain how the brake pedal play is adjusted.
6. Define steering geometry.
7. Which measuring tool is used to measure clearance between rocker arm and valve stem? And write the firing order of V-8 engine.
8. List out the dash board instruments.
9. What is the function of a engine cooling system?
10. List out the major greasing parts of a vehicle.

PART – B (50 Marks)

11. Explain any two of the following with tables. (10)
 - (a) Road test report
 - (b) Trip sheet
 - (c) Periodic Maintenance Check Sheet
- 12.(a) List out the tools used for assembly of an engine. (5)
(b) Explain the step-by-step procedure for disassembly of an S.I. engine. (5)
- 13.(a) Write the procedure for break pedal adjustment. (5)
(b) Explain maintenance and servicing of an automobile electrical system. (5)
14. List out the most common problems that will effect the ignition system of a petrol engine and explain the maintenance procedure for the ignition system. (10)
15. Explain inspection procedure of the following. (10)
 - (a) Cooling system
 - (b) Lubricating system
- 16.(a) Explain the types of tyre wear. (5)
(b) Explain steering system trouble shooting. (5)
17. Explain the following: (10)
 - (a) Starter Motor
 - (b) DC generator
 - (c) Alternator.
