

Code No: RT42242

R13

Set No. 1

IV B.Tech II Semester Supplementary Examinations, July/August - 2017

VEHICLE MAINTENANCE

(Automobile Engineering)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

PART-A (22 Marks)

1. a) Illustrate a typical maintenance log sheet of an automobile. [4]
- b) What is meant by engine tune-up? [3]
- c) Give reasons for the pulling of a vehicle on one side on application of brake [4]
- d) How will you assess the state of charge of a lead acid battery? [4]
- e) What are types of radiator. [3]
- f) When and why the fuel injection pump is to be calibrated? [4]

PART-B (3x16 = 48 Marks)

2. a) Discuss briefly about Chassis lubrication. [8]
- b) Discuss about the permissive repair schedules and workshop facilities for diesel transport vehicles maintenance. [8]
3. a) Explain in brief about Suspension systems. [8]
- b) What are the preliminary actions to be taken before taking out the engine from a vehicle? [8]
4. a) Give a brief account of servicing of oil and fuel filter. [8]
- b) State some of the special tools and equipment's necessary for a garage. [8]
5. a) Mention two main reasons for gear slip of a vehicle. [8]
- b) What is the necessity of clutch free pedal play? [8]
6. a) Explain in brief about automatic type gear box. [8]
- b) What is meant by calibration of fuel injection pump? Explain calibration of FIP and tuning of engine for optimum fuel supply. [8]
7. a) Explain tuning of carburetor for optimum fuel supply. [8]
- b) Briefly explain overhauling of cooling system of a car. [8]

