

Code No: **R1642242**

R16

Set No. 1

IV B.Tech II Semester Regular Examinations, September - 2020

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 FOUR questions from Part-B

PART-A (14 Marks)

1. a) What is the importance of maintenance? [2]
- b) Write a short note on engine tune-up. [2]
- c) What is the function of a thermostat in cooling system? [3]
- d) What is transistor assisted ignition? [2]
- e) Mention two main reasons for gear slip of a vehicle. [3]
- f) How are Rims classified? [2]

PART-B (4x14 = 56 Marks)

2. a) Explain about the preparation of maintenance check list and discuss in detail various forms used for vehicle maintenance. [7]
- b) What are the types of maintenance available? Explain any two types. [7]
3. a) Explain about the re-conditioning methods adopted for various components of an automobile. [7]
- b) Discuss the step by step procedure of dismantling of a car engine for overhauling. What precautions are to be taken at the time of overhauling? [7]
4. a) What are the possible causes for failure of cooling system which leads to engine overheating? Discuss the remedies for these failures. [7]
- b) Explain about anti-corrosion and anti-freezing solutions. [7]
5. a) Explain the maintenance procedure and the various tests to be conducted on a lead acid battery of a vehicle. [7]
- b) Explain the step by step procedure for servicing the spark plugs. [7]
6. a) What is clutch slipping and clutch grabbing? Explain the maintenance and service of clutch. [7]
- b) Explain the procedure for servicing of hydraulic braking system. [7]
7. a) Discuss in detail about Body panel repair procedure. [7]
- b) What is the necessity of wheel balancing? Explain wheel balancing procedure. [7]