

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech (Automobile Engg.) (Sem.-6)
VEHICLE MAINTENANCE AND DIAGNOSTICS

Subject Code : BTAE-605-18

M.Code : 79289

Date of Examination : 12-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) Give basic classification of Vehicle Maintenance.
- b) Explain the objectives of RCM.
- c) What do you mean by '*Vehicle maintenance tools and equipment's*'?
- d) How vehicle lubrication and maintenance are linked with each other?
- e) What do you mean by '*Engine Tuning*'?
- f) Explain the significance of MPFI in vehicles.
- g) What is wheel balancing?
- h) Explain the basic procedure of engine removal from vehicle?
- i) What do you mean by bleeding of brakes?
- j) Explain how testing of cylinder head is done during engine overhauling.

SECTION-B

2. Explain the benefits, objectives and principles of Condition Based maintenance.
3. Explain the specifications of standard tools used for vehicle maintenance.
4. Explain the lubrication and maintenance schedules for clutch system in vehicles.
5. Explain the use of compression gauge and vacuum gauge during S.I engine tuning.
6. Discuss various troubles and diagnosis systems related to MPFI engines.

SECTION-C

7. Discuss the working and functions of Drum and Disc brakes in Vehicles.
8. What do you mean by Decarburizing and explain why boring/honing of engine components is required during Engine overhauling process?
9. Write a short note on workshop manuals and owner's manual with respect to vehicle maintenance.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.