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B.Tech.(AE) (2012 to 2017) (Sem.-7)
VEHICLE MAINTENANCE & DIAGNOSTICS
Subject Code : BTAE-702
M.Code : 71818

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION 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

Q1. Answer briefly :

- a) What are the objectives of preventive maintenance?
- b) Write about spark plug tester.
- c) What do you understand by headlight aligner?
- d) Write about battery (S.G) tester.
- e) What are two basic approaches to decrease pollution from automobiles?
- f) What is Assembly Line diagnostic link?
- g) What is MAP sensor?
- h) What do you understand by bleeding of brakes?
- i) While checking a gear pump, what are the points to be noted?
- j) What is a dip stick?

SECTION-B

- Q2. Discuss the thermography and corrosion monitoring system use for vehicle maintenance.
- Q3. Enlist various spark plug defects. Explain their probable causes and suitable remedies in each case.
- Q4. State different S.A.E. viscosity rating of oils.
- Q5. Discuss the maintenance schedules for Differential and gear box.
- Q6. Discuss the troubles and diagnosis of MPFI Engines.

SECTION-C

- Q7. With neat sketch explain in details standard and non-standard tools and equipment use for vehicle maintenance.
- Q8. Describe in detail the various troubles and their causes in an automotive clutch. Also suggest the remedies for these troubles.
- Q9. Write notes on :
- a) Exhaust gas analyser
 - b) Inspection of engine by measurement

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.