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Total No. of Pages : 02

Total No. of Questions : 18

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

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**Answer briefly :**

1. Differentiate between the terms “Servicing” and “Maintenance”.
2. Illustrate a typical maintenance log sheet of an automobile.
3. Why should cylinder head bolts be removed in certain sequence?
4. List out the special tools to be used in the maintenance of an engine.
5. What is meant by clutch pedal free play? What are the effects of incorrect adjustment of it?
6. Why a solenoid is used in the starting circuit of automobiles?
7. What is vapour lock in fuel system? How it is caused?
8. List out the parts of a car that requires greasing during general maintenance schedule.
9. What do you understand by SAE 40-50?
10. What is the function of PSP switch?

SECTION-B

11. Write a short note on computerized automotive maintenance system.
12. Write down the difference between wheel balancer and wheel aligner.
13. Discuss the thermography and corrosion monitoring system use for vehicle maintenance.
14. What are the possible causes and remedy for engine overheating due to cooling system?
15. Explain any four troubles experienced in hydraulic brake system and explain how these troubles can be rectified.

SECTION-C

16. How equipments are important for vehicle maintenance? Discuss the painting and testing equipments.
17. What are the possible causes and remedies of the following engine troubles :
 - a) Low oil pressure
 - b) High oil pressure
 - c) Excessive oil consumption
18.
 - a) What are the causes for noise from the final drive housing of a vehicle?
 - b) With the aid of a line chart describe the chassis lubrication of a heavy vehicle.

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.