Roll No. | | | | | | | | | | | | **Total No. of Pages : 02**

Total No. of Questions : 18

B.Tech. (AE) (2012 to 2017) (Sem.–7)

AUTOMOTIVE ELECTRONICS SYSTEMS

Subject Code : BTAE-703

M.Code : 71819

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

Write briefly :

1. Define open loop system.
2. What is basic sensor arrangement?
3. Illustrate altitude sensor.
4. List different solid-state ignition systems.
5. Brief about warm up control.
6. Write about adaptive cruise control.
7. Brief back-up MPU.
8. Write short note on speech synthesis.
9. What is role of detonation sensor?
10. Define idle speed control.

SECTION-B

11. Discuss about components for electronic engine management.

12. Explain multi point fuel injection.

13. Discuss about engine cranking control?

14. Describe the onboard diagnosis system.

15. How a solenoid is useful in fuel injection system and explain its working also?

SECTION-C

16. Explain the role of electronic transmission control.

17. Write notes on :

    a) Knock control

    b) Collision avoidance radar warning system.

18. Describe electronic management of chassis oxygen.

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.