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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.