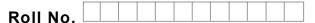
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Total No. of Pages : 02

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B.Tech.(AE) (2011 Onwards) (Sem.-7,8) AUTOMOTIVE ELECTRONICS SYSTEMS Subject Code : BTAE-703 Paper ID : [A2934]

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

1. Write briefly :

- a. Some broad categories of ITS technologies
- b. Name vehicle motion control systems.
- c. What are different components of electronic engine management?
- d. What are advantages of electronic ignition system?
- e. Define Traction control system.
- f. What do you understand by acceleration enrichment?
- g. How does knock is controlled in engine?
- h. Define FBC.
- i. What is Crank angle position sensors?
- j. Name at least four future automotive electronic systems.



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SECTION-B

- 2. What are the methods for stabilization of vehicle? Explain any one.
- 3. Discuss about Deceleration leaning control.
- 4. What does traction control system mean? Explain it.
- Discuss about intelligent transportation system for Indian cities. 5.
- 6. The complete Ideal speed control encompasses of three different operational phases. Explain them.

SECTION-C

- What is roll of onboard diagnosis system in automotive? Discuss about the difference 7. between onboard diagnosis system I and onboard diagnosis system II.
- 8. What are different types of solid-state ignition systems? Explain them with their principle anker.cor of operation.
- Write briefly about following : 9.
 - a. Back-up MPU,
 - b. Collision avoidance radar warning system. dr h Fif