

**M. TECH.-III (ELECTRONICS V.L.S.I.) (CBCS – 2015 COURSE) :
WINTER - 2017**

SUBJECT : SELF-STUDY PAPER – I: IN-VEHICLE NETWORKING

Day : **Thursday**
Date : **25/01/2018**

W-2017-2886

Time : **11.00 AM TO 02.00 PM**
Max. Marks : 60

N.B.:

- 1) All questions are **COMPLOSRY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Answers to both the sections should be written in **SEPARATE** answer books.
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SECTION – I

Q.1 What is need for In-vehicle monitoring? Justify. **[10]**

OR

What is multiplexing and de-multiplexing? Explain the concept w.r.t. In-vehicle networking.

Q.2 Compare TCP and UDP. **[10]**

OR

Compare IP and ICMP.

Q.3 Explain the structure of message frame format used in CAN protocol. **[10]**

OR

Give applications of CAN protocol in transportation electronics.

SECTION – II

Q.4 Explain the role of LIN protocol in automotive application. **[10]**

OR

Explain the LIN message frame in detail.

Q.5 What is MOST? Discuss the network in detail. **[10]**

OR

What is Flex Ray? How is it important in automotive context?

Q.6 What are the different cellular technologies? Describe in detail. **[10]**

OR

What is grid system? Explain with example.

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