

S.D.E.

M.C.A. Sem - V : WINTER - 2018

SUBJECT: I.T, ELECTIVE- III EMBEDDED SYSTEM INTERFACING & EMBEDDED COMMUNICATION SYSTEM

Day : Friday
Date : 30/11/2018

Time : 10.00 AM TO 1.00 PM
Max Marks : 80

W-2018-4821

N.B. :

- 1) Attempt any **FIVE** questions from Section – I and any **TWO** questions from Section – II
- 2) Figures to the right indicate **FULL** Marks.
- 3) Answers to both the section should be written in **SEPARATE** answer book.

SECTION - I

- Q.1** What is embedded system? Explain various trends in embedded system development. (10)
- Q.2** What is Communication Services? Explain in detail Communication Services. (10)
- Q.3** Explain different ADC techniques. (10)
- Q.4** Explain difference between microcontroller & microprocessor. (10)
- Q.5** What are the various software interrupts? Explain any two in detail. (10)
- Q.6** Explain in detail Servo motor interfacing with neat diagram. (10)
- Q.7** Write short notes (any **TWO**) (10)
- a) Pulse measurement
 - b) DAC Techniques
 - c) Ethernet connectivity

SECTION - II

- Q.8** Draw a neat labelled block diagram of 8051 microcontroller & explain the functions of each block. (15)
- Q.9** What are the different communication protocols in embedded system? Explain in detail any two. (15)
- Q.10** Explain LCD interfacing circuit with neat diagram & Explain function of each pin of LCD. (15)

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