

S.D.E.
M.C.A. SEM - V : SUMMER - 2018
SUBJECT: I.T, ELECTIVE- III EMBEDDED SYSTEM INTERFACING & EMBEDDED
COMMUNICATION SYSTEM

Day : **Friday**
Date : **01/06/2018**

S-2018-4633

Time : **10.00 A.M. TO 1.00 P.M.**
Max Marks : 80

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** Explain embedded system, its importance & need in detail. (10)
- Q.2** Explain different ADC techniques. (10)
- Q.3** Explain TCP/IP protocol stack in detail. (10)
- Q.4** What are the Hardware interrupts. Explain in detail. (10)
- Q.5** Explain USB communication detail. How does PC to PC USB Communication work? (10)
- Q.6** Explain in brief system Integration & its importance. (10)
- Q.7** Write short notes Any Two (10)
- a) LED interfacing
 - b) Synchronous communication
 - c) Servo motor interfacing

SECTION - II

- Q.8** Explain in detail DAC interfacing techniques with diagram. (15)
- Q.9** Explain interrupt handling & execution of interrupt service routines. (15)
- Q.10** Explain in detail Keyboard interfacing with neat diagram. (15)

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