

S.D.E.

M.C.A. Sem - V : SUMMER - 2019

**SUBJECT : I.T. ELECTIVE – III : d) EMBEDDED SYSTEM INTERFACING &
EMBEDDED COMMUNICATION SYSTEM**

Day : Saturday
Date : 04/05/2019

S-2019-5280

Time : 10.00 AM TO 1.00 PM
Max. Marks : 80

N.B.:

- 1) Attempt **ANY FIVE** questions from Section – I and **ANY TWO** questions from Section – II.
 - 2) Answers to both the sections should be written in **SAME** answer books.
 - 3) Figures to the right indicate **FULL** marks.
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SECTION – I

- Q.1** What is LED? Discuss its application in an Embedded System. **[10]**
- Q.2** Discuss Analog Interfacing in an Embedded System. **[10]**
- Q.3** What is a Software Interrupt in a computer system? **[10]**
- Q.4** Explain DAC techniques in brief. **[10]**
- Q.5** What is Interrupt Vector Table? Explain in brief. **[10]**
- Q.6** How Parallel Port Communication is performed in an Embedded System? **[10]**
- Q.7** Write a short note on USB Communication. **[10]**

SECTION – II

- Q.8** How a Hardware Interrupt is handled in an Embedded System? **[15]**
- Q.9** Explain Asynchronous Serial Communication in an Embedded System. **[15]**
- Q.10** How a Keyboard is interfaced in an Embedded System? **[15]**

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