

S.D.E.

M.C.A. SEM - IV : SUMMER - 2018

SUBJECT: EMBEDDED SYSTEMS CONCEPTS & MODELING

Day: **Saturday**
Date: **02/06/2018**

S-2018-4622

Time: **02.00 P.M. TO 05.00 P.M.**
Max. Marks: 80

N.B.:

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

SECTION-I

- Q.1** What are different Applications of embedded systems? Discuss in detail (12)
- Q.2** What is Real Time operating system? Discuss in detail. (12)
- Q.3** Explain sequence diagram in detail. (12)
- Q.4** Explain interrupt handling in detail. (12)
- Q.5** Write short notes on: (Any **TWO**) (12)
- a) Embedded operating system
 - b) Categories of embedded system
 - c) Wireless Networking

SECTION- II

- Q.6** What is microprocessor based embedded systems? Explain 8-bit microprocessor in detail. (16)
- Q.7** Explain VLSI designing in detail. (16)
- Q.8** What is use cases? Explain in detail its importance. (16)

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