

S.D.E.
M.C.A. Sem - IV : SUMMER - 2019
SUBJECT: EMBEDDED SYSTEMS CONCEPTS & MODELING

Day: Wednesday
Date: 15/05/2019

S-2019-5269

Time: 02.00 PM TO 05.00 PM
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 **SAME** answer book.

SECTION-I

- Q.1** What are different categories of embedded systems? Discuss in detail. (12)
- Q.2** What is embedded operating systems? Discuss in detail. (12)
- Q.3** Explain interrupt handling in detail. (12)
- Q.4** What are classes involved in system? Explain interaction among different classes. (12)
- Q.5** Write short notes on: (Any **TWO**) (12)
- a) General purpose operating system
 - b) 8 bit Vs 16 bit microprocessor
 - c) Parallel programming

SECTION- II

- Q.6** What is embedded system? Explain the recent trends in embedded system. (16)
- Q.7** What is microcontroller based embedded system? Explain 8-bit microcontroller. (16)
- Q.8** What is use case? Explain in detail with example. (16)

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