

S.D.E.

M.C.A. SEM - IV : WINTER - 2017

SUBJECT: EMBEDDED SYSTEMS CONCEPTS & MODELING

Day: **Thursday**

Date: **21/12/2017**

Time: **02.00 P.M. TO 05.00 P.M.**

Max. Marks: 80

W-2017-4431

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 the requirements of embedded system? Discuss in detail. (12)
- Q.2** What is General purpose operating system? Discuss in detail. (12)
- Q.3** Explain VLSI designing in detail. (12)
- Q.4** What are the classes involved in system? Explain interaction among different classes. (12)
- Q.5** Write short notes on: (Any **TWO**) (12)
- a) Real time operating system
 - b) Applications of Embedded systems
 - c) Distributed computing

SECTION- II

- Q.6** What is Microprocessor based embedded systems? Explain 16- bit microprocessor in detail. (16)
- Q.7** Explain the Digital signal processing in detail. (16)
- Q.8** What is system deployment? Explain the different activities involved in it. (16)

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