

S.D.E.

M.C.A. Sem - V : WINTER - 2018

SUBJECT: ELECTIVE – IV: EMBEDDED SYSTEM PROGRAMMING USING HIGH
LEVEL LANGUAGES

Day: Saturday
Date: 01/12/2018

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

W-2018-4825

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 sections should be written in **SEPARATE** answer book.

SECTION-I

- Q.1** What are different data types and bit wise operations embedded C? (10)
- Q.2** What is inline assembly code explain in detail. (10)
- Q.3** Explain in detail C object files in Embedded system & its importance. (10)
- Q.4** Explain in detail proc file system. (10)
- Q.5** Explain the need of pointers in embedded c programming with example. (10)
- Q.6** What is code optimization? Explain different code optimization techniques. (10)
- Q.7** Write short notes on any **TWO** of the following: (10)
- a) Jini
 - b) J2ME
 - c) Block devices

SECTION- II

- Q.8** Write a C program for any one character device interfacing. (15)
- Q.9** Explain in detail Dynamic Kernel module programming in Embedded System. (15)
- Q.10** Explain in detail User mode and Kernel mode programming. (15)

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