

S.D.E.

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

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

Day: **Monday**
Date: **04/06/2018**

Time: **10.00 A.M. TO 1.00 P.M.**
Max. Marks: 80

S-2018-4637

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 Explain in detail bitwise operations Embedded C programming. (10)
- Q.2 Discuss in detail memory management techniques in embedded system. (10)
- Q.3 What are the block devices? Explain any two devices in detail. (10)
- Q.4 Differentiate between Union and structure. (10)
- Q.5 Describe in detail code optimization techniques. (10)
- Q.6 What are the different data types & logical operations in C? Explain in detail with suitable example. (10)
- Q.7 Write short notes on any **TWO** of the following: (10)
- a) Character devices
 - b) Proc file system
 - c) Jini

SECTION- II

- Q.8 Discuss in detail user mode and kernel mode programming. (15)
- Q.9 Write a c program for any one block device interfacing. (15)
- Q.10 Describe in brief Dynamic kernel module programming in Embedded System. (15)

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