

**Subject : I.T. Elective-IV d) Embedded System Programming Using  
High level Languages**

Day : Tuesday  
Date : 13/12/2016



Time : 10.00 A.M. TO 1.00 P.M.  
Max Marks : 80 Total Pages : 1

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**N.B.:**

- 1) Attempt **ANY FIVE** questions from Section – I and attempt **ANY TWO** questions from Section – II.
  - 2) Answer to both the sections should be written in the **SAME** answer book.
  - 3) Figures to the right indicate **FULL** marks.
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**SECTION – I**

- Q.1** List and explain different data structures used in Embedded C programming. [10]
- Q.2** Discuss memory management techniques in Embedded Programming. [10]
- Q.3** Explain in detail architecture of J2ME. [10]
- Q.4** What are the character devices? Explain with examples the character devices. [10]
- Q.5** Differentiate between union and structure. [10]
- Q.6** Discuss in detail Kernel mode programming with its significance. [10]
- Q.7** What is code optimization? List and explain the various code optimization techniques in brief. [10]

**SECTION – II**

- Q.8** Write a C code in Linux environment to create a library for math function including addition, multiplication, subtraction and division. Write steps to execute program. [15]
- Q.9** Write a C program to interface LCD character device to display “Hello” message. [15]
- Q.10** Explain in detail Jini architecture. [15]

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