S.D.E.

M.C.A. Sem - V : SUMMER - 2019

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

Day : Thursday
Date : 09/05/2019

S-2019-5284

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

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 SAME answer books.

SECTION – I

Q.1 Discuss the concept of an Embedded System in brief. **(10)**

Q.2 Discuss Bit-wise Operations in C Language. **(10)**

Q.3 Write a short note on Memory Management. **(10)**

Q.4 Explain the concept of Kernel-mode Programming in Linux? **(10)**

Q.5 What is a Device Driver? Explain with appropriate examples. **(10)**

Q.6 What is Proc File System in Linux? **(10)**

Q.7 What is Jini? Discuss in brief. **(10)**

SECTION – II

Q.8 What is a *Union* and how it is created in C Language? Explain with an appropriate example. **(15)**

Q.9 How to link Assembly and C object files? Explain with an appropriate example. **(15)**

Q.10 How C Language is used in Embedded Systems? Discuss in detail. **(15)**

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