

S.D.E.

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

SUBJECT: UNIX & LINUX INTERNALS

Day : **Wednesday**
Date : **20/12/2017**

W-2017-4428

Time: **02.00 P.M. TO 05.00 P.M.**
Max. Marks: 80

N.B.:

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

- Q.1** Explain the working of general purpose utilities in UNIX operating system. [10]
- Q.2** What are system calls? Explain various system call used for handling files and directories. [10]
- Q.3** Explain the procedure to configure Linux Kernel. [10]
- Q.4** Explain inter process communication and signal handling mechanisms in Unix environment. [10]
- Q.5** Discuss the commands used for managing files and directories in Unix. [10]
- Q.6** Write the features and functions of Ping and Telnet commands. [10]
- Q.7** Write short notes on **ANY TWO** of the following: [10]
- a) VI Editor
 - b) Memory management
 - c) Life cycle of process

SECTION – II

- Q.8** a) Write a program in C to accept five numbers from user in an array and sort in descending order. [07]
b) Write a program in C to accept as number from user and to find sum of digits of a number. [08]
- Q.9** a) Write various privileges of System Administrator. How are these privileges exercised? [07]
b) Explain the following: [08]
i) grep and egrep commands ii) backup and recovery
- Q.10** Explain the following with respect to shell programing with suitable example: [15]
a) Conditional statements
b) Looping statements
c) String handling

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