Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

B.Tech (Electronic & Computer Engineering) (2011 Onwards)   (Sem.–6)
UNIX PROGRAMMING
Subject Code : BTEL-604
M.Code : 71166

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. **SECTION-A** is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. **SECTION-B** contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. **SECTION-C** contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. **Answer briefly :**

    a. Explain the following commands with example

        i) closedir

        ii) opendir

        iii) readdir

    b. What is kernel? Is it similar to the operating system? Explain

    c. Differentiate between head and tail.

    d. List the various operations of sed commands.

    e. Define system call.

    f. What is file? What are different types of files? Explain.

    g. Write a shell script to concatenate two files.

    h. What is the difference between symlink and ulink?

    i. List applications of sed.

    j. Differentiate between Window and Unix operating system.

SECTION-B

2. Explain the following commands with their syntax and examples.

   a) man

   b) echo

   c) passwd

   d) date

   e) Is

3. Explain vi editor and discuss about different modes of operation in vi editor.

4. Explain Korn shell input and output commands with example.

5. Explain unjx file permissions for security.

6. Explain in detail about the mathematical functions of AWK.

SECTION-C

7. Explain the architecture of UNIX operating system in detail.

8. a) Explain various Special Parameters and Variables in C shell programming,

   b) What is redirection? Explain standard redirections.

9. a) Discuss in detail about grep family of commands.

   b) Explain in detail the following networking commands.

      i) du

      ii) mount

      iii) telnet

      iv) df

      v) finger

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.