DEPARTMENT OF COMPUTER SCIENCE

QUESTION BANK (2018-2019 AY)

Subject: Unix and Shell Programming   **Branch/Sem: III EEE / II**

Regulation   : R16

UNIT I

  1. a)   What are the features of Unix operating system?   (5 M)
     b)   Explain the following basic UNIX commands ? (a) ls   (b) cat   (c) cal   (5 M)

  2. a)   Explain the UNIX architecture   (5 M)
       b)   Explain the following unix commands   (5 M)
i) cp   ii) rm   iii) mv
  3. Explain the networking commands in unix   (10 M)

  4. (a) Explain about how to create a directory in UNIX?   (5 M)
   (b) Explain about how to remove a directory in UNIX?   (5 M)

  5. a) Explain the Command Substitution with examples?   (5 M)
   b) Multiple Commands in Unix?   (5 M)

Unit II

1. a) Explain about the file system in UNIX   (5 M)
   b) Discuss about the Basics of Files in UNIX   (5 M)

2. a) Explain the file permissions in UNIX   (5 M)
   b) Discuss about the Directory Hierarchy?   (5 M)

3. a) Explain the file attributes and permissions in UNIX   (5 M)
   b) The **file** command in UNIX, explain?   (5 M)

4. Briefly explain about how to change the file permissions using **chmod** command   (10 M)

5. a) Explain about how to change the ownership of a file   (5 M)
   b) Explain about how to change the group of a file   (5 M)

Unit III

 1.a) Explain the shell command line structure   (5 M)
   b) Discuss about Meta Characters in Unix   (5 M)

 2.a) How to create new shell commands   (5 M)
   b) Explain command arguments and parameters   (5 M)

 3.a) How to set program output as arguments   (5 M)

b) Briefly explain about shell variables   (5 M)

4.Explain the I/O Redirection with examples?   (10 M)

5. a) Explain about for loop with example?   (5 M)
   b) Describe about while loop with example?   (5 M)

Unit IV

1. a) Explain about the following filters
     (i) cut   (ii) paste (iii) uniq   .   (5 M)
   b) Explain about the following filters

      (i) head   (ii) tail   (iii) sort   (5 M)

2. Briefly explain about grep family with suitable examples   (10 M)

3. a) Explain the features of stream editor sed   (5 M)
   b) Explain the structure of sed   (5 M)

4. a) Explain the concept of awk? Write about fields and records   (5 M)
   b) Draw the standard awk script design? How can we use commands in awk script file? (5 M)

5. a) What are the good files in UNIX, explain?   (5 M)
   b) What are the good filters UNIX, explain?   (5 M)

Unit V

1) a) Briefly explain about shell variables   (5 M)
   b) Explain the export command   (5 M)

2) a) Explain about the read command in shell programming   (5 M)
   b) Positional Parameters in UNIX   (5 M)

3) a) Explain the exit status of command   (5 M)
   b) Explain about the set command   (5 M)

4) a) Discuss about branching control structures   (5 M)
   b) Discuss about loop control structures   (5 M)

5) a) Explain about the following: (5 M)
      (i)   expr command   (ii) the here document
   b) Explain about the following: (5 M)
(i) script   (ii) eval (iii) exec

Unit VI

1.a) What is a process, explain?   (5 M)
  b) Briefly discuss about the parent and child processes   (5 M)

2. a) Explain various types of processes   (5 M)
   b) Briefly explain about foreground and background processes   (5 M)

3 a)Explain about internal and external commands   (5 M)
  b) Explain how to create a process   (5 M)

4) Explain the following commands with suitable examples :   (10 M)
   (i) trap   (ii) sty

5) a) Explain about the kill command   (5 M)
   b) Discuss about job control   (5 M)