Bachelor of Computer Applications 4th Semester Examination

1047

UNDERSTANDING UNIX
Paper : BCA-403

Time : 3 Hours]   [Max. Marks : 90

Note :– (1) Attempt *one* question from each Section A, B, C and D and compulsory question No. 9.

(2) Use of non-programmable calculator is allowed.

Section–A

1. (a) Define operating system. What is its importance. Explain its various services.   2+3+4

   (b) Explain Unix Kernel and directory system with examples.   4.5+4.5

2. (a) Explain any *three* types of operating systems.

   (b) Compare and contrast Unix and Windows. 3×3=9

Section–B

3. (a) Explain how inter-user and inter-machine communication takes place in Unix ? Explain various commands with examples. 4+5

   (b) Define Process. Explain at least four process management commands with examples. 1+8

4. (a) Explain various directory command in detail. 9

   (b) How security and protection is provided in Unix ? Explain. 9

Section–C

5. How system administration is carried out in Unix. Explain in context of :

   (a) Maintaining User accounts

   (b) Taking Backups

   (c) Managing Disk space. 3+5+5+5

6. How the following facilities are excercised in Unix :

   (a) Maintaining security

   (b) Setting up remote communication

   (c) Installing printers and peripheral devices. 6+6+6

Section–D

7. (a) How shall programs are written and executed ? Explain with example. 9

   (b) How Network troubleshooting is handled in Unix ? Explain in detail. 9

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8. (a) List out any *two* control statements and write the corresponding "AWK" code with examples. 4.5+4.5

   (b) · How 'string comparison' and string 'splitting' is pertermed through shell programming ? Explain with examples. 4.5+4.5

Compulsory Question

9. Explain :

   (a) IP addresses

   (b) Classes

   (c) Special shell parameters

   (d) Distributed systems

   (e) Any two piping commands

   (f) Changing groups in Unix

   (g) Mounting file system in Unix

   (h) Regular expressions

   (i) Grep   9×2=18