Code: 303205

BCA 2nd Semester Exam., 2014

OPERATING SYSTEM AND UNIX

Time: 3 hours

Full Marks: 60

Instructions: akubihar.com

- (i) All questions carry equal marks.
- (ii) There are **SEVEN** questions in this paper.
- (iii) Attempt FIVE questions in all.
- (iv) Question Nos. 1 and 2 are compulsory.
- 1. Choose the correct answer/Fill in the blank (any six):
 - (a) UNIX is a
 - (i) single-user and CUI-based operating system
 - (ii) multiuser and GUI-based operating system
 - (iii) multiuser and single-tasking operating system
 - (iv) multiuser and multitasking operating system

- (b) we command
 - (i) is used for counting the character of a word akubihar.com
 - (ii) counts the line of a file
 - (iii) counts the files of a directory
 - (iv) is a wrong command
- (c) To erase the entire word in vi editor, we use
 - (i) Ctrl-w
 - (ii) Ctrl-c
 - (iii) Alt-w
 - (iv) Ctrl-d
- (d) Which was the first UNIX shell?
 - (i) Bash shell
 - (ii) Korn shell
 - (jil) Bourne shell
 - (iv) X-shell
- (e) To remove a directory command is used in UNIX.
- (f) The octal number used with chmod command to make a file readable, writable and executable to the owner is
 - (4) 000

(ii) 722

(iii) 755

(iv) 777

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(g)	The	process	15
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- (i) job in execution
- (ii) job in RAM
- (iii) job in waiting
- (iv) None of the above
- (h) How many types of scheduler are there?

(i) 2

Jil) 3

(iii) 4

(iv) 5

- (i) The SJF stands for
 - A shortest job first
 - (ii) simple job first
 - (iii) system job first
 - (iv) second job first
- (j) To see the contents of a directory, we use the command
 - 15 ls
 - (ii) lp
 - (iii) dir
 - (iv) list
- 2. Answer any three short answer-type questions :
 - (a) What is the role of operating system?
 - (b) Differentiate between page and segment.
 - (c) Describe about process.

- (d) Deals about the three modes of vi editor. How would you switch from one mode to another?
- (e) Write the syntax of the following commands:
 - (i) cmp
 - (ii) cat
 - (iii) mdir
 - (iv) comm
- 3. How many types of scheduling algorithm are there? Describe them in detail.
- 4. Describe the paging techniques. What is the need of page table?
- Compare UNIX features with Windows. Give your views which is better.
- How many types of shell are used in UNIX? Describe them.
- 7. Write short notes on any three of the following:
 - (a) Fragmentation
 - (b) GUI
 - (c) UNIX file system
 - (d) Shell
 - (e) Multithreading
