

**Third Year B.C.A ( Semester - I) Examination**  
**Paper - 15BCA302**

**Linux And Shell Programming**

Time : Three hours]

[Full Marks - 60

- N.B. :**
- i) All questions carry equal marks
  - ii) Due credit will be given to neatness & adequate dimensions.
  - iii) Assume suitable data wherever necessary.
  - iv) Use Blue/Black ink/refill only for writing the answer book.

Q.1 Choose correct option from given alternative. 5

- a) \_\_\_\_\_ command is used to create a new directory.
  - i) rmdir
  - ii) del
  - iii) mkdir
  - iv) create
- b) \_\_\_\_\_ command is used to perform arithmetic operations.
  - i) at
  - ii) expr
  - iii) script
  - iv) cal
- c) \_\_\_\_\_ command is used to display the content of a file pagewise.
  - i) cut
  - ii) more
  - iii) filter
  - iv) grep
- d) Shell script is executed using \_\_\_\_\_ command.
  - i) tput
  - ii) create
  - iii) sh
  - iv) execute
- e) \_\_\_\_\_ command is used to keep the previously executed command in memory.
  - i) df
  - ii) comm
  - iii) history
  - iv) gawk

- Q.2 a) Discuss the file system in Linux O.S. 5  
 b) State and explain any three file oriented commands used in Linux. 6

OR

- Q.3 a) Explain with syntax & example. 6  
 i) Command format ii) mkdir iii) wc  
 b) Why Linux O.S. is popular operating system ? Explain. 5
- Q.4 a) State and explain any three general purpose commands. 6  
 b) What do you mean by file access permission ? How they are granted or removed ? 5

OR

- Q.5 a) Explain the commands with syntax and example. 6  
 i) Date ii) head iii) script  
 b) What is background processing ? Explain any two background oriented commands. 5
- Q.6 a) State the use of VI editor with different modes. 5  
 b) Explain the following. 6  
 i) pipe ii) grep iii) more

OR

- Q.7 a) What do you mean by Filter ? State and explain any two filter commands in Linux. 6  
 b) How do you Insert and delete text in VI editor. 5

- Q.8 a) State and explain any two control structures used in shell script. 6  
 b) State and explain shell variables used in Linux. 5

OR

- Q.9 a) What are positional parameters ? Explain their roles in shell script. 5  
 b) What is shell script ? Write procedure to create and execute shell script. 6
- Q.10 a) How arrays are created and accessed in C shell ? Explain with example. 5  
 b) Explain the operator available in C shell. 6

OR

- Q.11 a) How C shell script are created and executed ? 5  
 b) Explain the looping statement used in C Shell with example. 6

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