

**1Y. B. SC. (Computer Science) SEM –VI (CBCS - 2016 COURSE) :**

**SUMMER - 2019**

**SUBJECT : LINUX PROGRAMMING**

Day : Monday  
Date : 08/04/2019

**S-2019-1113**

Time : 03.00 PM TO 06.00 PM  
Max. Marks : 60

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**N. B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
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**Q. 1** Attempt **ANY TWO** of the following: **(12)**

- a) Describe Linux file system in detail.
- b) Explain types of operating system.
- c) Write purpose and syntax of following basic commands used in Linux:
  - i) cal                      ii) wc                      iii) bc
  - iv) man                    v) date                    vi) who

**Q. 2** Attempt **ANY TWO** of the following: **(12)**

- a) Describe file changing permissions and owner changing modes in detail.
- b) Explain input modes used in vi editor.
- c) Illustrate head and tail filtering commands with all options.

**Q. 3** Attempt **ANY TWO** of the following: **(12)**

- a) Write a shell program to find area of square, rectangle and triangle.
- b) Describe sed command with suitable example.
- c) Explain numeric and string comparison operators used in shell programming.

**Q. 4** Attempt **ANY THREE** of the following: **(12)**

- a) Write the architecture of Linux operating system.
- b) Explain directory command used in Linux.
- c) Write a grep command with proper example.
- d) Write a shell program to print Fibonacci series of given number.

**Q. 5** Attempt **ANY FOUR** of the following: **(12)**

- a) Explain ls command with all options and example.
- b) Write the features of vi editor.
- c) Write a shell program for arithmetic operations using case statement.
- d) Explain purpose and syntax of od and comm command.
- e) Write a shell program to check given number is positive or negative.
- f) Define shell script and operating system.

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