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Total No. of Pages : 2

**B.C.A. (Part - III) (Semester - VI) Examination, April - 2019**

**Linux Operating System (Revised) (Paper - 603)**

**Sub. Code : 66424**

**Day and Date : Friday, 26 - 04 - 2019**

**Total Marks : 80**

**Time : 02.30 p.m. to 05.30 p.m.**

**Instructions :**

- 1) Attempt any 4 questions from Q.1 to Q.7.
- 2) Q.8 is compulsory.

- Q1)** a) What is Operating System? Explain types of Operating System in detail. [8]  
b) Explain the concept of Kernel-Shell relationship with a neat diagram. [8]
- Q2)** a) Explain different filter commands in Linux with example. [8]  
b) List and explain modes of operation of VI editor. [8]
- Q3)** a) Explain for loop in Linux with example. [8]  
b) Explain grep command with example. [8]
- Q4)** a) Explain all control structures in linux with example. [8]  
b) What is file? Explain file system tree in Linux. [8]
- Q5)** a) Explain command line argument with example. [8]  
b) Describe the following commands: [8]  
i) chown  
ii) chmod  
iii) expr.

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- Q6) a) Write a shell script to find factorial of a number. [8]  
b) Explain Is command in Linux with all options. [8]
- Q7) a) Explain cursor movement commands in Linux. [8]  
b) Explain the use of test and expr statement in Linux with example. [8]
- Q8) Write short notes on (any two) : [16]  
a) Shell and its types.  
b) General purpose utilities.  
c) File permissions.  
d) Directory related commands.

