

Seat No.	
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**B.C.A. (Part - III) (Semester - VI) Examination,  
October - 2023**

**LINUX OPERATING SYSTEM (Revised)**

**Sub. Code : 66424**

**Day and Date : Thursday, 26 - 10 - 2023**

**Total Marks : 80**

**Time : 10.30 a.m. to 01.30 p.m.**

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

**Q1)** Explain directory structure of Linux operating system and various directory handling commands in Linux. **[16]**

**Q2)** a) Explain is command in Linux with its options. **[8]**  
b) Explain vi editor with its three modes. **[8]**

**Q3)** a) How file permissions are changed in Linux? Explain it with example. **[8]**  
b) Explain various features of Linux Operating System. **[8]**

**Q4)** a) Write a shell script to print 10 numbers of Fibonacci series. **[8]**  
b) Explain cursor movement command in Linux. **[8]**

**Q5)** Write a shell script to perform the following operations on file : **[16]**

- i) Check the file exist or not
- ii) Count the words, characters and lines
- iii) Search for particular pattern

**Q6)** a) What is shell? Explain importance and types of shell in Linux. **[8]**  
b) Explain any five file handling commands in Linux. **[8]**

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- Q7)** a) Explain the for loop with example. [8]  
b) Write a shell script to find entered number is Armstrong or not. [8]

**Q8)** Write short notes on (Any two) : [16]

- a) General Purpose Utilities
- b) Ex Mode
- c) Command Line Arguments
- d) Pipe Operator

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