

B.Sc. Part – III Semester – VI (CBCS)
Examination March/April- 2024
Computer Science (Paper XV)
Linux Part – II
Sub. Code: 81718

Day and Date:
Time:

Total Marks: 40

Instructions: 1) All Questions are compulsory
2) Figures to the right indicate full marks

Q1) Select the correct alternative and rewrite the sentence: [8]

- a) Which of the following operator used in VI to delete text from file?
i) d ii) c iii) D iv) Y
- b) Which of the following command is used to change 3 lines from VI file?
i) ccc ii) 3cl iii) 3cc iv) None of these
- c) _____ command is used to switch from one file to another file in VI-editor.
i) E ii) e iii) move iv) None of these
- d) Which of the following is correct type of addressing used in sed command?
i) Line Addressing ii) Context Addressing iii) Both a & b iv) None of these
- e) _____ option is used with sed command to suppress the printing nature of print command.
i) -s ii) -p iii) -n iv) None of these
- f) grep stands for _____.
i) global rewind expression pattern ii) global regular expression print
iii) global rating of extended printing iv) None of these
- g) sed command uses _____ option to execute all instructions from particular file.
i) -f ii) -e iii) -file iv) None of these

h) A dedicated path is established in TCP-IP with _____ services.

i) Connection oriented

ii) Connection less

iii) Both i & ii.

iv) none of these

Q.2) Attempt any two of the following:

[16]

- a) Explain operators used in Vi-Editor in detail.
- b) Explain sed command in Linux with Line Addressing.
- c) Explain the filter command - grep in detail.

Q.3) Attempt any four of the following:

[16]

- a) Explain Demand Paging.
- b) Explain Multiple file handling commands in VI Editor.
- c) Explain Named Buffers in VI Editor.
- d) Define protocol. Explain- a) HTTP b) SMTP c) DNS d) DHCP
- e) Write a short note on Firewall.
- f) Explain wall command with example.

Answer key for SET I:

Q.1) Multiple choice questions: -

- a) d
- b) 3cc
- c) e
- d) Both a & b
- e) -n
- f) global regular expression print
- g) -f
- h) Connection oriented

Q.2) Long Answer questions: -

- a) 2 marks for each operator. Total 4 operators are there. Also give one example for each operator.
- b) 2 marks for explaining Syntax of sed. 6 marks for line addressing concept explanation which includes examples with multiple instructions(-e) and with file containing(-f) instructions.
- c) 2 marks for explaining syntax of grep. 6 marks for explaining at least four options of grep command.

Q.3) Short Answer questions: -

- a) 2 marks for diagram and 2 marks for short description.
- b) Create multiple files with Vi. Explain all commands such as- e, e#, n, rew.
- c) 2 marks for explaining what is named buffers and 2 marks for at least 2 examples.
- d) 1 mark for Definition of protocol. Remaining 3 marks for explaining given protocols in short.
- e) Firewall with detail applications – 4marks.
- f) Syntax of wall for 2 marks and example of wall for 2 marks.