



GIET UNIVERSITY, GUNUPUR – 765022
B. C. A (Fifth Semester) Examinations, October' 2022
BCA20502 - Unix and Shell Programming

Time: 3 hrs

Maximum: 70 Marks

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions)

(1 x 10 = 10 Marks)

Q. 1 Answer ALL questions

CO #	PO #
1	1
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99	99
100	100

a. Which of the following is not related to UNIX?

CO1 PO1

- (i) UNIX was not written in C language (ii) Linux is also a version of UNIX
(iii) UNIX is not for a window (iv) None of these

b. The first line of shell starts with.

C01 P01

- | | | | |
|-------|---|------|---|
| (i) | @ | (ii) | # |
| (iii) | & | (iv) | % |

c. The minimum number of links for any directory file?

CO1 PO1

- | | | | |
|-------|---|------|---|
| (i) | 5 | (ii) | 6 |
| (iii) | 7 | (iv) | 2 |

d. The following command is used for making the scripts interacting?

C03 P01

- | | | | |
|-------|----------|------|-----------|
| (i) | chmod +w | (ii) | chmod +rw |
| (iii) | chmod +r | (iv) | chmod +x |

e. All directories of users are usually placed indirectory?

C02 P01

- | | | | |
|-------|------|------|------|
| (i) | ldev | (ii) | user |
| (iii) | urw | (iv) | lusr |

f. Which command is used to see the last access time of various files in a file system?

C03 P01

- (i) Is-*mt*
- (ii) ls-lu
- (iii) r*mt*
- (iv) none of these

g. In UNIX which of the following information is not the part of the user?

C03 P01

- | | | | |
|-------|-----------------------|------|--------------------|
| (i) | kernel task | (ii) | task scheduling |
| (iii) | scheduling parameters | (iv) | system call states |

h. Which directory file system in UNIX is used?

C03 P01

- (i) tree directory
- (ii) diamond directory
- (iii) hierarchical directory
- (iv) graph-structured directory

i. Superuser means that?

CO4 PO1

- | | | | |
|-------|-------------|------|----------------|
| (i) | system user | (ii) | system manager |
| (iii) | normal user | (iv) | Administrator |

j. The files of any block in the UNIX file system is?

C03 P01

- | | | | |
|-------|------|------|------------------|
| (i) | 2048 | (ii) | 512 |
| (iii) | 1024 | (iv) | any of the above |

PART – B: (Short Answer Questions)**(2 x 10 = 20 Marks)**Q.2. Answer ALL questions

	CO #	PO #
a. Write down the command for listing directories?	CO3	PO1
b. Write down the syntax for deleting files?	CO2	PO2
c. Write down the command & syntax for renaming files?	CO2	PO1
d. What is copying files in UNIX and how it can be used?	CO2	PO2
e. Write down the command for counting words in a file?	CO3	PO1
f. Write the syntax for displaying contents of a file?	CO2	PO2
g. Write down the syntax for editing a file?	CO1	PO1
h. How to create a file in vi editor?	CO4	PO2
i. What is hidden file and mention some examples?	CO4	PO1
j. What are meta characters in UNIX?	CO1	PO2

PART – C: (Long Answer Questions)**(10 x 4 = 40 Marks)**Answer ALL questions

	Marks	CO #	PO #
3.a. Explain the different types of home variable used in Unix OS?	5	CO1	PO1
b. Difference between absolute pathname and Relative pathname?	5	CO1	PO2
(OR)			
c. Explain the significance of the attribute for directory with syntax also mention example?	5	CO2	PO1
d. Write down the command Listing modification and access time? With syntax and example	5	CO2	PO2
4.a. What is system information using in command for Unix OS?	5	CO1	PO1
b. Explain UNIX architecture process with neat diagram?	5	CO1	PO2
(OR)			
c. Write down the command for copying and deleting files? With syntax and example.	5	CO2	PO1
d. Write down the command for moving a file and renaming a file? With syntax and example.	5	CO2	PO2
5.a. Explain the terms like standard input, standard output and standard error?	5	CO3	PO1
b. What is shell scripting? Explain interpretive cycle of shell?	5	CO3	PO2
(OR)			
c. Explain the different types environment variables with syntax ?	5	CO4	PO1
d. Define BRE and ERE? Explain with suitable example?	5	CO4	PO2
6.a. What is kill process? Explains with its different types?	5	CO3	PO1
b. What is basic Unix process? Explains display process attributes and system process?	5	CO3	PO2
(OR)			
c. Mention the different command line arguments used in Linux with syntax?	5	CO4	PO1
d. Define pattern matching, Escaping, Quoting with syntax and example?	5	CO4	PO2

--- End of Paper ---