PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc(SS) DEGREE EXAMINATION MAY 2024

(Sixth Semester)

Branch - SOFTWARE SYSTEMS (five year integrated)

UNIX ARCHITECTURE AND PROGRAMMING

		<u>UNIX ARCHITECTURE</u> 2	AND PROGRAMIN	MING
Tin	ne:	Three Hours		Maximum: 50 Marks
		SECTION-A Answer ALL ALL questions carry F	questions	$(5 \times 1 = 5)$
1.		What command is used to display the cui) 'cd' ii) 'ls'	urrent working directiii) 'pwd'	ctory in Unix? iv) 'dir'
2.		Which symbol is used to comment out a i) # ii) //	a line in a shell scrip	ot? iv) *
3.		In Unix/Linux, what is the purpose of the i) To store user passwords ii) To temporarily hold data from disk iii) To manage network connections iv) To execute system commands	ne buffer cache?	
4.		Which command is used to view the cur i) 'top' ii) 'ps'	rently running proc iii) 'ls'	esses in Unix/Linux? iv) `proc`
5.		In memory management, what is the tern not in the main memory? i) Page flip ii) Page hit	m for a situation wh	iv) Page swap
		SECTION - B Answer ALL ALL Questions Carry	Questions	$(5 \times 3 = 15)$
6	a.	Elucidate File System in Unix. OR		
7	b.a.b.	Explain Regular Expression with example Discuss Command Line Arguments. OR Illustrate File System Architecture.	mple.	
8	a.	Justify Kernel Data Structure, OR		
	b.	Specify the Allocation of Disk Blocks	S.	
9	a.	Describe Context of a Process in deta OR	il.	
10	b. a.	Discuss Process Scheduling. List out the importance of Swapping I	Processes.	
	b.	OR Narrate Page Faults.		

20SSP40 Cont...

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Evaluate General Purpose Utilities.

OR

- b. Explain Communication and Scheduling.
- 12 a. Specify the importance of Shell Scripts.

OR

- b. Describe Decision Making with example in detail.
- 13 a. Summarize the concepts of Reading and Writing Disk Blocks.

OR

- b. Bring out the essentials of Conversion of a pathname to an inode.
- 14 a. Illustrate Process System.

OR

- b. Highlight the working of Awaiting Process Termination.
- 15 a. Explain Demand Paging.

OR

b. Enumerate Data Structures of Demand in Memory Management.

Z-Z-Z

END