Exam. Code : 103203 Subject Code : 1103

B.A./B.Sc. 3rd Semester

COMPUTER APPLICATION (Operating System)

Time Allowed—3 Hours]

[Maximum Marks—75

Note: Attempt any **FIVE** questions. All questions carry equal marks.

- (a) Explain various memory management methods in operating system.
 - (b) What are the differences between single and multiuser systems? Explain. 7.5
- 2. Compute the Average waiting time and Turnaround time for the following set of processes by applying FCFS, preemptive SJF algorithms:

Arrival Time (ms) CPU burst (ms)

Process			
\mathbf{P}_1	0	10	
P_2	1	· 29	
P_3	2	3	
\mathbf{P}_4	3	7	
P ₅	4	12	15
\mathbf{P}_4	3	7	15

3.	(a)	What are the features and benefits of UNIX? Explain	in l O
	(b)	Explain the concept of time sharing with illustration examples.	ve 5
4.	(a)	Describe the special features and applications of t following operating systems:	he
	÷	(i) Multi-programming	
		(ii) Multi-tasking	
		(iii) Timesharing.	10
	(b)	What are the types of files in UNIX? Explain detail.	i1 5
5.	(a)	What are the strengths and weaknesses of UN operating system? Explain.	IX 10
	(b)	Write a shell script to check whether a given numbis prime or not.	e 5
6.	(a)	What is a shell? What are the different types shell in Unix?	o 10
	(b)	Explain Login and Logout from a session.	5
7.	(a)	Explain any five file commands.	5
	(b)	What are filters? Give example.	5
	(c)	What is pipelining? Explain.	5

8. (a) Give the sentence:

It is slow in getting started but is quite powerful and the cursor is on the characterd of the word 'started', give the vi editor commands to:

- (i) move to the beginning of the work 'Started'
- (ii). then to move to the end of the word 'but'
- (iii) then to move to the beginning of the last word 'powerful'
- (iv) then to move to the beginning of the given sentence and
- (v) finally to the end of the given sentence. 10
- (b) What are the different ways in which a text can be inserted in Vi editor? Explain.

http://www.gnduonline.com Whatsapp @ 9300930012 Your old paper & get 10/-पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से