

ED-635

M.Sc. 3rd Semester Examination, March-April 2021

COMPUTER SCIENCE

Paper - III

Linux

Time : Three Hours]	[Maximum	Marks	:	100
	[Minimum Pass	Marks	:	40

Note : Answer any **two** parts from each question. All questions carry equal marks.

- 1. (a) What is Linux? Discuss its features and benefits.
 - (b) What do you mean by File system? Discuss its various features.
 - (c) Explain the following commands with example :
 - (*i*) who
 - (ii) pwd
 - (iii) chmod
 - (iv) grep
 - (v) ls

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(Turn Over)

2.	<i>(a)</i>	What	is	Shell?	Explain	its	various
		feature	es.				

- (b) Write a Shell script to take input a number and reverse it.
- (c) Write short notes on the following:
 - (i) Command line argument
 - (ii) String comparision
 - (iii) Case statement
 - (*iv*) if fi
- **3.** (*a*) What do you mean by Process ? Explain process states and transition.
 - (b) Write a short note on Process creation, setting process priority and killing a process.
 - (c) Explain system boot and init process.
- **4.** (*a*) What is Shared memory? Write its importance.
 - (b) Write short note on demand paging and swapping.
 - (c) What is System cell? Explain wait(), signal(), fork() and exit() system cell.
- 5. (a) Write steps for following in Linux :
 - (i) Adding a user
 - (ii) Setting user password
 - (iii) Deleting a user
 - (iv) Updating password

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(Continued)

(2)

(3)

- (b) What is Security? Explain Backup and Restore services in detail.
- (c) Write a short note on X-Windows.

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