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.

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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

DRG_134_(3)   *(Turn Over)*

(2)

2. (*a*) What is Shell? Explain its various features.

   (*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

DRG_134_(3)   *(Continued)*

(3)

(*b*) What is Security ? Explain Backup and Restore services in detail.

(*c*) Write a short note on X-Windows.

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