

B.C.A. - I (NEP) Semester-II
CC103 - Paper-I : Operating System & Linux

P. Pages : 2

Time : Three Hours



GUG/S/25/16673

Max. Marks : 60

- Notes :
1. All questions are compulsory & carry equal marks.
 2. Draw neat & labelled diagrams use supporting data wherever necessary.
 3. Avoid vague answers & write specific points/answers related to questions.

Either:

1. a) Describe following- **6**
- i) Storage structure ii) Storage Hierarchy
- iii) I/O interrupt
- b) Define parallel operating system explain function & role of operating system? **6**

OR

- c) Explain concept of batch operating system & time sharing in detail. **6**
- d) Describe system operation & Dual mode operation in detail. **6**

Either:

2. a) Explain file Manipulation & Device Management in detail. **6**
- b) Describe operation on process? Explain in brief. **6**

OR

- c) Explain the following- **6**
- i) Networking ii) Protection system
- d) Describe process & Job control in detail. **6**

Either:

3. a) Explain the structure of Linux operating system in detail. **6**
- b) Define shell explain following- **6**
- i) Bourne shells ii) 'C' shells

OR

- c) Describe & explain the Directory Structure of Linux. 6
- d) Explain following in detail- 6
 - i) Error file
 - ii) Filter

Either:

- 4. a) Define Unix communication explain the following- 6
 - i) PS command
 - ii) Kill command
- b) Describe Arithmetic operator in shell script using example. 6

OR

- c) Explain control flow statement with appropriate example. 6
- d) Define variables? Explain types & functions of variables. 6

5. Attempt all the questions below-

- a) Enlist the types of operating system? 3
- b) Define process state? Explain components of operating system? 3
- c) What is pipeline? Explain giving example of it? 3
- d) Write a procedure to create & execute a shell script? 3
