

Diploma Board Examination – February 2022

Course: Diploma in Computer Engineering.

Subject : Operating Systems.

QP Code: 759

Time: 3 Hours

Sub Code: 4052320

Max. Marks: 100

[N.B: (1) Answer all 10 Questions in PART A and each question carries 3 Marks.

(2) Answer division (a) or division (b) of each question in PART B and each question carries 14 marks.]

PART – A

1. Define process management component.
2. Define booting.
3. List out the scheduling algorithms.
4. Write short notes on pre-emptive scheduling.
5. Write short notes on swapping.
6. List out the disadvantages of paging.
7. Write about the three characteristics of RAID.
8. Write short notes on virus and worm.
9. Write a shell script to add two numbers.
10. List out the features of Linux.

[Turn over.....

PART – B

11. (a) Explain in detail about command line interface based OS.
(Or)
(b) Explain (i) Monolithic operating system (ii) Microkernel operating system.
12. (a) Explain in detail about thread and its types.
(Or)
(b) Explain in detail about types of multiprocessor scheduling.
13. (a) Explain in detail about principle of paging with example.
(Or)
(b) Explain in detail about internal and external fragmentation.
14. (a) (i) Write short notes on file attributes.
(ii) Write short notes on file operations.
(Or)
(b) Explain in detail about sequential and random file access methods.
15. (a) Explain in detail about virtual file system.
(Or)
(b) Explain in detail about file security in Linux.
