

2024

Time : 3 hours

Full Marks : 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

*Answer from **all** the Sections as directed.*

(Operating System)

Section – A

(Objective Type Questions)

1. Choose the correct answer of the following :

1×5 = 5

- (a) Which command is used to sort the lines of data in a file in reverse order ?

- (i) Sort
- (ii) Sh
- (iii) St
- ~~(iv) Sort-r~~
- (v) None of these

(b) Which command is used to remove a directory ?

(i) rd

~~(ii) rmdir~~

(iii) dldir

(iv) rdir

(v) None of these

(c) Unix is written in :

~~(i) C language~~

(ii) Java

(iii) Perl

(iv) None of these

(d) Choose the command which can display only user information :

(i) Who

~~(ii) Who am i~~

(iii) Who me

(iv) None of these

(e) Which command is used to display the contents of a file ?

~~(i) Cat~~

(ii) Show

(iii) Display

(iv) Type

2. Fill in the blanks :

1×5 = 5

- (a) grep command is used to search pattern in file.
- (b) The Unix Shell is both Command Interpreter and C language language. Confusion Hai
- (c) cd command is used to change the current directory.
- (d) del com command is used to delete all files in a directory.
- (e) Echo command is used for display the text on screen

Section – B

(Short-answer Type Questions)

3. Answer any **four** questions of the following in not more than **200** words each : $5 \times 4 = 20$

- (a) Define Kernel.
- (b) Define operating system. Explain functions of operating system.
- (c) Define multiprogramming.
- (d) Explain FCFS.
- (e) Define Paging.

Section – C
(Long-answer Type Questions)

4. Answer any four questions of the following :

$10 \times 4 = 40$

- (a) Write a shell script to find factorial of a given number.
- (b) Explain the following :
 - (i) Mkdir
 - (ii) Pwd
 - (iii) Echo
 - (iv) Cat
 - (v) Chmod
 - (vi) Grep
- (c) Explain Unix system architecture.
- (d) Explain the following :
 - (i) Real time system
 - (ii) Segmentation
 - (iii) Mutual exclusion
- (e) Explain the four conditions to occur a deadlock.
- (f) Write a shell script to check greater among three numbers.