

Q.P. Code – 31453

Fourth Semester B.A.(CS) Degree Examination, April/May 2019

(CBCS Scheme)

Computer Science

UNIX OPERATING SYSTEM

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : Answers ALL the Sections.

SECTION – A

Answer any **TEN** of the following.

(10 × 1 = 10)

1. What is operating system?
2. Expand GUI.
3. What is process?
4. Define scheduling.
5. What is Kernel?
6. What is the use of cat command in Unix?
7. Write the command to create a directory in Unix.
8. What is file?
9. Write the syntax of creating a file command in Unix.
10. What is a shell?
11. What is the use of kill command?
12. Mention conditional statement in Unix Operating System.

Q.P. Code – 31453

SECTION – B

Answer any **FIVE** of the following.

(5 × 3 = 15)

13. Explain single user operating system.
14. Write the difference between preemptive and non-preemptive scheduling.
15. What is directory? Mention its types.
16. Explain different permission in file.
17. What is a variable? Mention its types.
18. What is the use of break and continue statement in Unix?
19. What is logic operator? Mention its types.

SECTION – C

Answer any **SIX** of the following.

(6 × 5 = 30)

20. Explain any two types of operating system.
21. Explain process states diagram.
22. Explain FCFS and SJF scheduling algorithm.
23. Write any five basic command in Unix.
24. Explain while and for statement with example.
25. Explain basic shell type in Unix.
26. Explain communication command in Unix.
27. Write a shell script to check whether the given string is palindrome or not.

SECTION – D

Answer any **FIVE** of the following. **(5 × 7 = 35)**

28. Explain the components of operating system.
29. (a) Explain Round Robin scheduling algorithm.
(b) Explain PCB in detail. **(4 + 3)**
30. (a) Explain Unix file block.
(b) What is the use of bc and date command with example. **(4 + 3)**
31. Explain Unix architecture. Mention the feature of Kernel.
32. (a) What is the use of tput command in Unix?
(b) What is the use of pwd command with example?
(c) Write a note on Grep command. **(2 + 2 + 3)**
33. (a) What is command line argument?
(b) Write a shell script to find the factorial of given number. **(2 + 5)**
34. (a) Explain writing and executing basic script in Unix.
(b) Write a note on mathematical expression in Unix. **(5 + 2)**
-