

Roll No. _____

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CAVS-N 361 B-16
B.C.A. Vth Semester Degree Examination
Computer Science
(Operating System Principles)
Paper - BCA - 5.1
(New)

Time : 3 Hours

Maximum Marks : 80

Section - A

Answer **all** the questions. Each question carries **2** marks.

(10×2=20)

1. a) What are the objectives of operating system?
- b) What is a process? Name the different process states.
- c) Define Multithreading?
- d) What is Deadlock? Give an example.
- e) Define scheduling?
- f) Define File and Directory?
- g) What is Client Server computing.
- h) Define computer security.
- i) Explain the terms "WORMS" and "VIRUSES".
- j) What is Malicious Software.

Section - B

Answer any **four** Questions. Each question carries **5** marks.

(4×5=20)

2. Explain different services of an Operating system.

3. Explain the different operations on Process.
4. What is dead lock Avoidance. Explain in brief.
5. Explain FCFS Scheduling Method.
6. Explain the Logical structure of a single level directory.
7. Write a Shell program to find the Sum of "n" numbers.

Section - C

Answer any four Questions. Each question carries 10 marks.

(4×10=40)

8. Explain the operating system structure using Layered Approach and give the characteristics of Modern operating systems.
9. What is Page Fault? Explain the steps in handling page fault with a neat diagram.
10. Explain SJF and Round Robin (RR) Scheduling algorithms with example.
11. Discuss the various file access Methods.
12. Write in detail the three tier client/server architecture.
13. What do you mean by shell script? Write a shell script program to find Factorial of 'n' numbers.

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