

Register Number :

Name of the Candidate :

5 2 8 1

B.Sc. DEGREE EXAMINATION, 2010

(COMPUTER SCIENCE)

(SECOND YEAR)

(PART - III)

(PAPER - VIII)

220 / 250 / 210. OPERATING SYSTEM

(*Revised Regulations*)

(*Common with B.Sc.(I.T) Revised Regulations
and B.C.A. Revised Regulations & Double Degree*)

December]

[Time : 3 Hours

Maximum : 100 Marks

PART - A (8 × 5 = 40)

Answer any EIGHT questions.

ALL questions carry equal marks.

1. Compare multiprogramming systems with multiprocessing systems.

Turn Over

2

2. Explain contact switch with suitable diagram.
3. Illustrate elevator algorithm with example.
4. What is Belady's anomaly? Explain.
5. What are the design principles of UNIX?
6. Write short notes on programmer interface in UNIX.
7. Give a note on the history of Windows NT.
8. Write short notes on Windows NT security model.
9. What are the contents of the registration tables in LINUX?
10. How is security provided in LINUX systems?

SECTION - B (3 × 20 = 60)

Answer any THREE questions.

ALL questions carry equal marks.

11. (a) Explain the different types of operating system structures. (10)
- (b) What are the various performance criteria for scheduling algorithms? (10)

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12. Explain in detail the different types of file allocation methods. (20)
13. Write in detail about interprocesses communication in UNIX. (20)
14. Discuss in detail the networking principles of Windows NT. (20)
15. Explain in detail memory management in Linux. (20)

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[(*Common with B.Sc. (Information Technology) & B.C.A. (Revised Regulations)*)]

May]

[Time : 3 Hours

Maximum : 100 Marks

PART - A (8 × 5 = 40)

Answers any EIGHT questions.

All questions carry equal marks.

1. Write short notes on buffering and spooling.

Turn Over

2

2. Explain with neat diagram the different states a process undergoes.
3. Discuss in short thrashing.
4. What are the various operations performed on a file ?
5. Explain the history of UNIX system.
6. Compare DOS with UNIX.
7. What are the design principles of Windows NT ?
8. How is virtual memory management done by Windows NT ?
9. Explain :
 - (a) Open software. (2)
 - (b) Licensed software. (2)
 - (c) Share ware. (1)
10. Explain with example the Fork and Exel commands.

3

PART - B (3 × 20 = 60)

*Answer any THREE questions.
All questions carry equal marks.*

11. Explain the advantages and disadvantages of shortest job first scheduling and round roking scheduling with example.
12. Explain Bankers algorithm with suitable example.
13. Explain UNIX file system with a neat diagram.
14. Discuss in detail the various system components of Windows NT.
15. Discuss the various Kernel Modules in LINUX.

5. Explain the UNIX I/O system.
6. Explain the UNIX user interface.
7. Write short notes on Windows NT file system.
8. Briefly explain the history of Windows NT.
9. Discuss about Linux scheduling.
10. Explain the Linux file system.

PART - B (3×20 = 60)

Answer any THREE questions.

All questions carry equal marks.

11. Describe any two preemptive process scheduling algorithms with an example.
12. Explain the segmented memory management.
13. Describe the implementation of UNIX interprocess communication.
14. Describe the Windows NT history and design principles.
15. Explain the Linux process and memory management.

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220 / 250 / 210. OPERATING SYSTEMS

*[Common with B.Sc.(I.T) & B.C.A.&
Double Degree, Lateral Entry]*

May]

[Time : 3 Hours

Maximum : 100 Marks

PART - A (8× 5=40)

Answer any EIGHT questions.

All questions carry equal marks.

1. Explain the operating system structure.
2. Explain the FCFS process scheduling algorithm with an example.
3. What are the necessary conditions for a deadlock ? Explain.
4. Describe the single contiguous memory management.

Turn Over