

S.No. 2994

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(For the candidates admitted from 2012-2013 onwards)

B.Sc. DEGREE EXAMINATION,
NOVEMBER/DECEMBER 2014.

Fifth Semester

Computer Science

OPERATING SYSTEMS

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is meant by a process?
2. Mention any two reasons for the termination of a process.
3. What are the states of thread?
4. What is the use of trap? Explain briefly.
5. Mention the advantage and disadvantage of paging.
6. What is meant by swapping?

7. List the disk performance parameters.
8. What is a block? Explain briefly.
9. List out the benefits of Linux operating system.
10. Explain how Linux is compatible with other operating system.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

11. (a) What are the different types of interrupts? Explain briefly.
- Or
- (b) List out various operations on process.
12. (a) Explain a concurrent process briefly.
- Or
- (b) Mention deadlock avoidance in detail with an example.
13. (a) What are the memory management requirements?
- Or
- (b) What is meant by virtual memory?

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14. (a) What is a buffer? Classify them briefly.
- Or
- (b) Mention various disk scheduling algorithms briefly.
15. (a) Explain the design aspect of Linux.
- Or
- (b) List out the components of Linux Operating system.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain briefly the structure of the operating systems.
17. Explain how to prevent the occurrence of a deadlock.
18. Discuss in detail about the fixed and equal multiple partition memory management system.
19. Classify broadly the various categories of I/O devices.
20. Explain about the user interface aspect of Linux.

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