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GS-747

II Semester B.VOC Examination, May/June - 2019

INFORMATION TECHNOLOGY

203 : Operating System

(CBCS-Repeaters) (2016-17 & Onwards)

Time : 3 Hours

Max. Marks : 70

Instructions to Candidates : Answer all the Sections.

SECTION - A

I. Answer **any ten** questions.

10x2=20

1. What is an operating system ? Mention two.
2. What do you mean by pre-emptive scheduling ?
3. What is aging ? Explain.
4. Define semaphore.
5. Give any two necessary condition of deadlock.
6. Write any two functions of memory management.
7. List any four file attributes.
8. Define seek time.
9. What is an external fragmentation ?
10. What are passwords used for ?
11. What is a worm ?
12. What is encryption ?



SECTION - B

5x10=50

II. Answer **any five** questions.

13. (a) Explain Distributed operating system. 5
(b) What are main objectives of operating system. Explain. 5
14. (a) What is a process ? Explain process state transaction with neat diagram. 5
(b) Briefly explain FCFS scheduling algorithm. 5
15. (a) Explain the requirements of critical section problem. 5
(b) Explain Deadlock prevention with example. 5
16. (a) Explain Resource allocation graph. 5
(b) Explain Reader-writers problem. 5
17. (a) Explain contiguous memory allocation. 5
(b) Explain optimal page replacement algorithm. 5
18. (a) Explain paging in detail. 5
(b) Explain swap space management. 5
19. (a) What is File protection ? Explain. 5
(b) Explain any five types of viruses. 5
20. (a) Explain the various disk scheduling algorithms. 5
(b) Explain the structure of hard disk. 5