

ST. JOSEPH'S EVENING COLLEGE (AUTONOMOUS)
II SEMESTER BCA EXAMINATIONS APRIL 2018

OPERATING SYSTEM

Duration: 2.5 Hours

Max. Marks: 70

SECTION - A

I) Answer any SIX of the following questions. (6x3=18)

1. What is Operating System? Mention any two functions of an OS.
2. What is Thrashing?
3. What is Segmentation? Explain briefly.
4. List differences between Batch Processing and Multiprogramming OS.
5. What is Spooling?
6. Explain Semaphore.
7. What is Page fault? Explain the steps involved in page fault.
8. Mention the functions of memory management.

SECTION - B

II) Answer any FOUR of the following questions. (4x8=32)

9. What are OS services? Explain any three of them.
10. Explain different methods of deadlock prevention.
11. Explain Round Robin Scheduling with an example.
12. Explain Critical Section problem and process communication.
13. Write a short note on Virtual Memory.
14. Explain Contiguous memory allocation with its advantages and disadvantages.

SECTION - C

III) Answer any TWO of the following questions. (2x10=20)

15. Explain a) Paging Scheme. b) Demand Paging.
16. Write a note on File system and file allocation methods in detail.
17. Write a short note on:
 - a) Pre-emptive and non pre-emptive scheduling
 - b) Resource allocation Graph method for deadlock avoidance