

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

(K3)

11. a) Write the stages in the evolution of operating systems.
(OR)
b) List the main components of an OS.
12. a) Distinguish process and program.
(OR)
b) List the benefits of multithreading.
13. a) List and explain the four necessary conditions for deadlock.
(OR)
b) Write short notes on swapping. List the advantages and disadvantages
14. a) Explain FIFO Page Replacement with example.
(OR)
b) Explain the different access methods of files.
15. a) Illustrate the structure of a file system.
(OR)
b) Discuss the memory management in Windows XP.

SECTION – C

(5 X 8 = 40 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

(K4 (Or) K5)

16. a) List the main services provided by the Operating System.
(OR)
b) Illustrate the system calls and their types.
17. a) Elucidate the need of process scheduling
(OR)
b) Illustrate the Critical Section Problem.
18. a) Elucidate deadlock with Banker's algorithm.
(OR)
b) Illustrate paging and segmentation.
19. a) Elaborate Demand Paging.
(OR)
b) Illustrate the different directory structures
20. a) Discuss the different file allocation methods.
(OR)
b) Demonstrate the memory management in Android OS