
 SURESH GYAN VIHAR UNIVERSITY <small>Accredited by NAAC with 'A' Grade</small>		INTERNAL ASSIGNMENT - 1
Course	MCA	Operating System Concepts
Semester	2	
Total Marks:	15	

Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)

- A. Discuss the procedure for handling the page fault in demand paging.
- B. Present producer-consumer problem. Explain how to solve it.
- C. Mention the objectives and functions of Real-Time Embedded systems.

Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)

- A. Give the Peterson's solution to the Critical section problem.
- B. What is the cause of Thrashing?
- C. What is the purpose of interrupts?
- D. Explain the purpose with an example.
- E. Disadvantages of the semaphore

 SURESH GYAN VIHAR UNIVERSITY <small>Accredited by NAAC with 'A' Grade</small>		INTERNAL ASSIGNMENT - 2
Course	MCA	Operating System Concepts
Semester	2	
Total Marks:	15	

Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)

- A. What is an Operating system? Describe the Operating-System Functions. Explain the overview of an Operating system with neat sketch.
- B. Write in detail about file attributes, operations and types and structures.
- C. Briefly explain about single-level, two-level and Tree-Structured directories.

Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)

- A. The various security issues that arise in multiprogramming and time-shared systems.
- B. What is a Virtual Memory? Discuss the benefits of virtual memory technique.
- C. Why sharing a re-entrant module is easier, when segmentation is used than when pure paging is used?
- D. With a neat diagram, explain various states of a process.
- E. Give the benefits of multithreading.