BICS-019

BTCSVI

Term-End Examination

December, 2012

00213

BICS-019 : OPERATING SYSTEMS

Time : 3 hours   *Maximum Marks : 70*

Note :   *Attempt **any seven** questions.*

*Each question carries **equal marks**.*

1. Define Operating System. Explain the resources
    and characteristics of an Operating System.   **2+8**

2. Explain the device management techniques in   **10**
    detail.

3. What is Synchronization ? Explain Semaphores   **10**
    in detail.

4. Describe deadlock detection and prevention.   **10**

5. What is Swapping ? Explain the memory
    management strategies.   **2+8**

6. Explain in detail about paging techniques in operating system.   **10**

7. Define Fragmentation. How do you implement segmentation with paging ?   **2+8**

8. What are the different levels of file directories ?   **10**

9. Explain the File Protection Mechanism in detail.   **10**

10. Write short notes on *any two* of the following :   **5+5**
    (a) Unix Kernel
    (b) Windows NT
    (c) Authentication

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