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B.Tech.(ECE)/(ETE) (2011 Onwards) (Sem.-6)

OPERATING SYSTEMS
Subject Code: BTCS-401

Paper ID : [A2314]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Q1 Answer briefly:

- a) Write at least two functions of Operating System.
- b) Explain the term Process Synchronization.
- c) Explain the term Thrashing.
- d) Explain the term deadlock:
- e) Differentiate between Logical and Physical address space.
- f) Why page size is always power of 2?
- g) Write at least two differences between UNIX and Windows based operating systems.
- h) Differentiate between seek time and rotational latency.
- i) Define the term File. List various attributes of a File.
- j) Define the term Distributed Operating Systems.



SECTION-B

- Q2 What is the need of an Operating System? Explain in brief the different views of an operating system.
- Q3 Explain in detail the following CPU scheduling algorithms:
 - a) Shortest Job First.
 - b) Multilevel feedback Queue scheduling.
- Q4 Explain with an example the concept of shared pages in detail.
- Q5 Write a detailed note on Device Management policies.
- Q6 Write a brief note on Physical File System.

SECTION-C

- Q7 Explain in detail the concept of Multiprocessor Operating Systems.
- Q8 a) Explain any five LINUX Operating System commands with example.
 - b) Explain in brief the functions of Kernel and shell.
- Q9 What is the need of Page replacement? Explain any three methods of Page Replacement with example.

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