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Total No. of Pages : 02

Total No. of Questions : 09

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

OPERATING SYSTEMS

Subject Code : BTCS-401

M.Code : 71120

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) List various functions of an Operating System.
- b) Write atleast two advantages of layered architecture of Operating System.
- c) Define the term Turnaround time and waiting time.
- d) Explain the term PCB.
- e) Explain in brief about the term Fragmentation in reference to memory management.
- f) Explain in brief about Thrashing.
- g) Define the term seek time and rotational latency time.
- h) Differentiate between Network operating System and Distributed operating System.
- i) Why is disk scheduling important?
- j) List various goals of Protection.

SECTION-B

- Q2 Write a note on the functions of kernel and shell.
- Q3 Define the term deadlock. Explain deadlock prevention in detail.
- Q4 Explain the concept of distributed operating system in detail.
- Q5 Differentiate between LINUX and Windows based operating systems.
- Q6 Define the term security. Explain various goals of security

SECTION-C

- Q7 Explain the paging scheme of memory management in detail.
- Q8 Write a detailed note on File System Architecture.
- Q9 a) Write a detailed note on Device management policies.
b) Explain the concept of Process synchronization in detail.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.