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Total No. of Questions: 09

B.Tech. (Civil) (Sem.-4)
OPERATING SYSTEM
Subject Code: CS-202
M.Code: 56513

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS 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. Write briefly:

- a) Write at least two disadvantages of layered architecture of Operating System.
- b) List various CPU scheduling criteria.
- c) Define the term semaphores.
- d) Differentiate between paging and segmentation scheme of memory management.
- e) Differentiate between Logical and physical address space.
- f) Define the term seek time.
- g) Explain in brief about the term Caching.
- h) Explain the term security in brief.
- i) Write two advantages of distributed operating system.
- j) Write two advantages of LINUX operating system.



SECTION-B

- Q2 What is a process? Explain the different states of a process with a diagram. Also explain in detail the Contents of PCB of a process.
- Q3 What are critical sections? Why mutual exclusion required? Explain any one method of achieving mutual exclusion in detail.
- Describe the access matrix model used for protection purpose. Q4
- Write a detailed note on multiprocessor operating systems. O5
- Q6 Write a detailed note on Interrupts in reference to I/O systems.

SECTION-C

- Q7 a) Explain the following CPU scheduling algorithm:
 - Priority scheduling i)
 - itsikauker com ii) shortest job first scheduling
 - b) Explain the following terms:
 - Buffering
 - ii) Spooling
- Write a detailed note on Paging scheme of memory management. Q8
- Write a detailed note on UNIX operating system with SOLARIS. 09

NOTE: Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.

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