

No Preview
Available

Total No. of Question : [4]

Registration No. :

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Programme Name : Bachelor of Computer Science Engineering
Regular S.Y.B.Tech.Sem.IV ESE May / June 2023
IV SEMESTER (2021 BATCH)
201CSL211-Operating Systems

Duration : 2 Hours

Marks : 50

Instructions :

(Q1) **All Questions are compulsory** [20.0]

(1.1) List the types of Operating System. Explain any 3 types of Operating System. [6.0]

(1.2) Describe the different models used for inter-process communication. Suggest which model is better and why? [7.0]

(1.3) What is deadlock? Explain Banker's Algorithm. [7.0]

(Q2) **All Questions are compulsory** (internal sub question permitted for optional questions either 2.2 or 2.3) [10.0]

(2.1) What is Segmentation? Explain the basic segmentation method. [4.0]

(2.2) Draw and Explain schematic view of Swapping. [6.0]

OR [2.2 / 2.3]

(2.3) Discuss the procedure for page fault in demand paging with the help of a schematic diagram. [6.0]

(Q3) **All Questions are compulsory** (internal sub question permitted for optional questions either 3.2 or 3.3) [10.0]

(3.1) Write short note on the following terms Direct File Access method [4.0]

(3.2) Draw and Explain the interrupt ? driven I/O cycle with Polling and Interrupt concepts. [6.0]

OR [3.2 / 3.3]

(3.3) What are file attributes and Explain the minimal set of requirements needed for the file operations. [6.0]

(Q4) **Attempt any two out of three questions** [10.0]

(4.1) With a neat diagram explain Architecture of the UNIX operating system [5.0]

(4.2) Write a note on Network based Operating Systems [5.0]

(4.3) Explain System calls for the file system in Unix? [5.0]
