CSE 313

July 2021

CT 4

Date: 9 February 2022

Time: 25 mins + 10 mins for upload

- 1. Mention one advantage and one disadvantage of using inverted page table. Describe a way to circumvent the disadvantage you mentioned. (2+2=4 marks)
- 2. In a hypothetical machine, there are a total of 8 physical page frames.

Page Name	Time of Last Use (t)	R
А	22	1
В	54	1
С	74	0
D	37	0
E	12	1
F	91	0
G	45	1
Н	24	1

At t=124 and t=147, two page faults occur. Using clock page replacement algorithm, identify the page frames that will be evicted. (6 marks)

- 3. Describe the reason for using segmentation in memory. (2 marks)
- 4. Outline the steps that happen when a TLB miss occurs. (4 marks)
- 5. Mention the advantages and disadvantages of maintaining separate lists for holes and processes in swapping. (4 marks)