

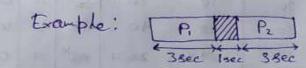
Dept-SCSE Roll-12 Shinshendu Chatterjee 16/08/2 3rd year 5th sem Operating System Assignment - 2 1) Assuming is the total processing line, and s is the overhead for each context switch I is the line quantum, then the CPU efficiency can be suppresented by the equation: my 2 ([218]-1) \$ 5+92 Solution: (a) When, O= 0. S=0 It becomes TIT=1 So, CPV efficiency is 100%.

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(b) When, Q) A, S=0 It becomes TIT=1. So, CPU efficiency is 100%.

(c) S(8(A



P. = 38ec P2 = 3 Sec Smitching = 1 Sec.

Efficiency Loomula = ([2/6]-1) * 5+h

Let, 8=2

Lel, 9=4

2. The CPU efficiency is 9/([PlQ]-1)*S+N.

(d) When, S=Q<9 9/(9/9-5)+9=9/(9-5)+9 9/29-5 9/29-9(e) Quearly Zero

When, Q is nearly zego.

PREMINDIET to be comes 9/infinity=0.