

Stamford University Bangladesh
CSE 219: Digital Logic and Computer Design
CT3

Time: 30 min

Marks: 10

Q1. Given five memory partitions of 100Kb, 500Kb, 200Kb, 300Kb, and 600Kb (in order) [8]
Dynamic Memory Allocation. Place processes of 212 Kb, 417 Kb, 112 Kb, and 426 Kb (in
order): First Fit, Best Fit, Worst Fit (with varied sizes). Which one is better and why?

Memory Partition

Partition	Memory Size Available
Partition 1	100 KB
Partition 2	500 KB
Partition 3	200 KB
Partition 4	300 KB
Partition 5	600 KB

Process Requires

Process	Memory Required
Process 1	212 KB
Process 2	417 KB
Process 3	112 KB
Process 4	426 KB

Q2. Draw the diagram of SIPO for 6-bit.

[2]