→ Case A : 2 jobs for first computing node & 1 job for second computing node.

Node 1:

CPU utilization : $1 - (p)^n = 1 - (0.6)^2 = 0.64 = 64\%$

Time to complete 2 jobs of 4 sec time $= \frac{4+4}{0.64} = \frac{8}{0.64} = 12.5$ sec

Node 2:

CPU utilization for node two - $1 - 0.6 = 0.4 = 40\%$ for 10 sec

for 12.5 sec, CPU utilization $= \frac{4}{12.5} = 0.32 = 32\%$

Avg CPU utilization $= \frac{64 + 32}{2} = \frac{96}{2} = 48\%$

Time to complete all 3 jobs = 12.5 sec

→ Case B : All 3 jobs on first computing node

CPU utilization for node one = $1 - p^n = 1 - (0.6)^3 = 78.4\%$

CPU utilization for node two = 0%

Avg CPU utilization = $\frac{78.4 + 0}{2} = 39.2\%$

Time to complete 3 jobs = $\frac{12}{0.784} = 15.3$ sec