

1.

First fit:

100 kB -

600 kB - 347 kB

400 kB - 122 kB

300 kB -

500 kB - 473 kB

Best fit - Best use of memory

100 kB -

600 kB - 417 kB

400 kB - 347 kB

300 kB - 122 kB

500 kB - 473 kB

Worst fit

100 kB -

600 kB - 347 kB

400 kB - 122 kB

300 kB -

500 kB - 473 kB

2.

a. Page 1 Offset 525

b. Page 11 Offset 896

c. Page 25 Offset 848

d. Page 0 Offset 511

e. Page 9 Offset 0

3.

a. $64 \text{ pages} * 2048 \text{ bytes} = 131,072 \text{ bytes} = 2^{17} = 17 \text{ bit logical address}$

b. $32 \text{ frames} * 2048 \text{ bytes} = 65,536 \text{ bytes} = 2^{16} = 16 \text{ bit physical address}$

4.

a. 600 ns because memory is referenced twice during a paged memory reference

b. It would take 360 ns on average