Week 9

1) The addresses a program may use to reference memory are distinguished from the addresses the memory system uses to identify physical storage sites.

**True**

2) \_\_\_\_\_\_\_\_\_\_ is transparent to the programmer and eliminates external fragmentation providing efficient use of main memory.

a. Thrashing

b. Hashing

c. Segmentation

**d. Paging**

3) The design issue of page size is related to the size of physical main memory and program size.

**True**

4) The smaller the page size, the greater the amount of internal fragmentation.

**False**

5) The \_\_\_\_\_\_\_\_\_ determines when a page should be brought into main memory.

a. resident set management

**b. fetch policy**

c. page fault

d. working set

6) \_\_\_\_\_\_\_\_\_\_ is the range of memory addresses available to a process.

Select one:

a. Virtual address

b. Real address

**c. Address space**

d. Virtual address space

7) A \_\_\_\_\_\_\_\_\_ is issued if a desired page is not in main memory.

a. page placement policy

b. page replacement policy

**c. page fault**

d. paging error

8) \_\_\_\_\_\_\_\_\_ is the concept associated with determining the number of processes that will be resident in main memory.

a. Virtual memory manager

b. LRU policy

c. Page fault frequency

**d. Load Control**

9) With \_\_\_\_\_\_\_\_\_\_\_ pages other than the one demanded by a page fault are brought in.

a. slab allocation

**b. prepaging**

c. thrashing

d. hashing

10) Virtual memory allows for very effective multiprogramming and relieves the user of the unnecessarily tight constraints of main memory.

**True**

11) The \_\_\_\_\_\_\_\_\_ states the process that owns the page.

a. control bits

b. page number

c. chain pointer

**d. process identifier**

12) \_\_\_\_\_\_\_\_\_ is the virtual storage assigned to a process.

a. Virtual address

b. Address space

**c. Virtual address space**

d. Real address

13)A \_\_\_\_\_\_\_\_\_ chooses only among the resident pages of the process that generated the page fault in selecting a page to replace.

**a. local replacement policy**

b. global replacement policy

c. page placement policy

d. page replacement policy

14) The \_\_\_\_\_\_\_\_\_ policy results in the fewest number of page faults.

**a. Optimal**

b. LRU

c. Clock

d. FIFO - Most number of faults

15) The address of a storage location in main memory is the \_\_\_\_\_\_\_\_\_\_\_\_\_.

a. **real address**

b. virtual address space

c. address space

d. virtual address

16) The size of virtual storage is limited by the actual number of main storage locations.

**False**

17) \_\_\_\_\_\_\_\_\_ allows the programmer to view memory as consisting of multiple address spaces.

a. Paging

b. Locality

**c. Segmentation**

d. Resident set management

18) Most of the memory management issues confronting the operating system designer are in the area of paging when segmentation is combined with paging.

**True**