Multiple Choice Questions

- 4.1 Which of the following are encompassed within primary memory management operations:
 - a. The allocation of main memory to programs
 - b. The garbage collection to achieve compaction
 - c. Managing the process control block
 - d. Protection to user data when a user exceeds his allocated data area allocation.
 - e. Transfer of data between devices using buffers.
- 4.2 Who performs the garbage collection?
 - a. The user
 - b. The memory management system
 - c. The processor, which switches to the garbage collection mode after termination of every program.
- 4.3 Once a program is compiled, it can be loaded for execution
 - a. Only from the compiler generated starting address
 - b. Any where in the main memory
 - c. User needs to specify where the compiled code is to be loaded
 - d. It is loaded starting from address 0 in the main memory.
- 4.4 After an allocation of space using the first-fit policy the number of holes in memory
 - a. Increases by one
 - b. Decreases by one
 - c. Does not change
- 4.5 Against the following statements indicate the policy which best describes the policy characteristics:
 - a. Most holes appear nearer to the beginning of the scan
 - b. Holes are nearly distributed uniformly through the memory
 - c. It requires the maximum time to allocate the suitable hole.
 - d. It leaves the largest holes in size.
- 4.6 The buddy system of memory allocation policy is a dynamic partitioning policy.
 - a. True
 - b. False

- 4.7 Indicate which amongst the following statements are true for virtual memory.
 - a. It allows for multiple users to use the system
 - b. It enhances scope for multi-programming
 - c. It extends the address space
 - d. It reduces external fragmentation as well as internal fragmentation.
- 4.8 Paging was prompted by what form of reasoning:
 - a. Because on compilation the program code is paginated.
 - b. Because program display a strong locality of reference.
 - c. Because we print programs on pages
- 4.9 The typical page size may be
 - a. Usually between 10 and 100 bytes
 - b. Usually of 512 to 2k bytes
 - c. More than 100 KB bytes but less than 1 MB
 - d. Minimally 1 MB
- 4.10 Which of the following are the likely causes of thrashing?
 - a. Because there are too many users connected to the system
 - b. Because the page size was very small
 - c. Because we followed a first in first out policy
 - d. Because we followed a least recently used policy for page replacement.
- 4.11 Segmentation can be supported alongside the paging.
 - a. True
 - b. False