1. The physical memory is not as large as the address space spanned by the processor.

a) True

b) False

Answer: a

Explanation: This is one of the main reasons for the usage of virtual memories.

2. The program is divided into operable parts called as \_\_\_\_\_\_\_\_\_

a) Frames

b) Segments

c) Pages

d) Sheets

Answer: b

Explanation: The program is divided into parts called as segments for ease of execution.

3. The techniques which move the program blocks to or from the physical memory is called as \_\_\_\_\_\_

a) Paging

b) Virtual memory organisation

c) Overlays

d) Framing

Answer: b

Explanation: By using this technique the program execution is accomplished with a usage of less space.

4. The binary address issued to data or instructions are called as \_\_\_\_\_\_

a) Physical address

b) Location

c) Relocatable address

d) Logical address

Answer: d

Explanation: The logical address is the random address generated by the processor.

5. \_\_\_\_\_\_\_\_\_\_ is used to implement virtual memory organisation.

a) Page table

b) Frame table

c) MMU

d) None of the mentioned

Answer: c

Explanation: The MMU stands for Memory Management Unit.

6. \_\_\_\_\_\_ translates the logical address into a physical address.

a) MMU

b) Translator

c) Compiler

d) Linker

Answer: a

Explanation: The MMU translates the logical address into a physical address by adding an offset.

7. The main aim of virtual memory organisation is \_\_\_\_\_\_\_\_

a) To provide effective memory access

b) To provide better memory transfer

c) To improve the execution of the program

d) All of the mentioned

Answer: d

Explanation: None.

8. The DMA doesn’t make use of the MMU for bulk data transfers.

a) True

b) False

Answer: b

Explanation: The DMA stands for Direct Memory Access, in which a block of data gets directly transferred from the memory.

9. The virtual memory basically stores the next segment of data to be executed on the \_\_\_\_\_\_\_\_\_

a) Secondary storage

b) Disks

c) RAM

d) ROM

Answer: a

Explanation: None.

10. The associatively mapped virtual memory makes use of \_\_\_\_\_\_\_

a) TLB

b) Page table

c) Frame table

d) None of the mentioned

Answer: a

Explanation: TLB stands for Translation Look-aside Buffer.