

Q22. Which of the following is an appropriate description concerning cache memory?

- a) Cache memory is used to compensate the difference in capacity between real storage and virtual storage.
- b) If a cache miss occurs in access to main memory, an interrupt occurs and data is transferred from main memory to cache memory by the program.
- c) In one method, when executing a write instruction, data is written to both cache memory and main memory. In the other method, data is written only to a block in cache, and the modified block is written back into main memory only when it is replaced.
- d) The need for cache memory is diminishing these days because of the significant improvement in access speeds of semiconductor memory.