CPT102 MOCK EXAM   **Multiple choice questions: Answer All Questions**
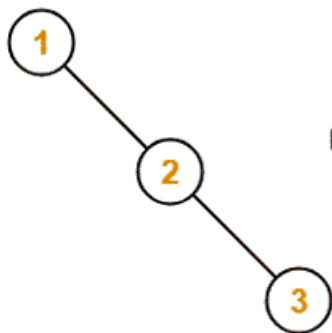
( ) **1.**   Which of the following is not an issue in data structure design?

a. multi-dimensional arrays   b. linked lists   c. finite state machines   d. indexes   e. dimensionality

( ) **2.**   Which of the following does not belong to linear collections?

a. trees   b. linked lists   c. stacks   d. queues   e. bags

( ) **3.**   In the process of converting "**7 - d**" into postfix expression, how many stack push operations need to be performed?

a. 1   b. 2   c. 3   d. 0   e. 5

( ) **4.**   In the process of evaluating postfix expression "**8 b +**", how many stack pop operations need to be performed?

a. 0   b. 2   c. 4   d. 3   e. 1

( ) **5.**   Assume a reasonable and efficient unordered ArraySet implementation, which of the following does not have the same cost as the others?

a. add   b. remove   c. contains   d. isEmpty

( ) **6.**   For the following tree, to make it height balanced using AVL type of rotations (i.e. L – leftwise, R – rightwise), which of the following reconfigurations will do the job?

a.   L   b. R   c. LL   d. LR   e. RR   f. RL

( ) **7.**   What is the Java statement to include package or class into your program?

a.   input   b. embed   c. interface   d. implement   e. import

( ) **8.**   What is the worst case retrieval performance (cost) for hash table?

a. O(N*N)   b. O(N)   c. O(1)   d. O(N*logN)   e. None of the rest is correct

END OF PAPER