

CPT101 Mock Exam

Answer the following multiple-choice questions. Each question is worth 2.5 marks.

1. () What is the major bottleneck of modern computer systems?

- a) CPU bottleneck b) von Neumann bottleneck c) cache bottleneck d) ALU bottleneck e) GUI bottleneck

2.() Recursive procedure call is enabled via?

- a) The use of assembly code
- b) Mutual exclusion
- c) Semantic gap between user code and machine code
- d) The provision of program stack
- e) The use of C code

3.() Which of the following device does not have memory?

- a) D flip-flop
- b) register
- c) multiplexer
- d) SR flip-flop
- e) hard disk

4.() How many bytes are used to represent a single character In ASCII?

- a) 1 b) 2 c) 3 d) 4 e) 5

5.() How many bytes are used to represent a single character in Unicode?

- a) 1 b) 2 c) 3 d) 4 e) 5

6.() Which of the following does not need to be pushed into stack before calling a procedure?

- a) parameters for the called procedure
- b) returning address to the caller
- c) current stack frame size
- d) EBP of current stack frame
- e) None of the above