

1. Which of the elements of the language hierarchy are machine independent (i.e., the same spec or program will run on different machines)?

- (a) Algorithms
- (b) Higher Level Languages
- (c) Assembly Language
- (d) Machine Language
- (e) Digital Logic

Answer: (a), (b)

2. What is the entity/person responsible for converting an algorithm to an equivalent higher level language representation?

- (a) Operating System
- (b) Algorithm Designer
- (c) Programmer
- (d) Computer Architect
- (e) Compiler

Answer: (c)

3. What is the entity/person responsible for converting a higher level language program to assembly language?

- (a) Operating System
- (b) Programmer
- (c) Compiler
- (d) Editor

Answer: (c)

4. What is the entity/person responsible for converting assembly language code to machine language code?

- (a) Compiler
- (b) Command Line Shell

- (c) Assembler
- (d) Computer Architect

Answer: (c)

5. What is the entity/person responsible for converting machine language code to digital logic?

- (a) Operating System
- (b) Bill Gates
- (c) Google
- (d) He/She who takes this course
- (e) NOTA

Answer: (d)

6. Which of the steps of conversion is this Computer Architecture course concerned about? Select all that apply.

- (a) Problem specification to algorithm specification
- (b) Algorithm specification to HLL code
- (c) HLL code to assembly language code
- (d) Assembly language to machine language
- (e) Machine language to digital logic

Answer: (d), (e)

7. What are the major components of a computer?

Answer: Input, Output, Memory, Data Path, Control Path