

(These items were developed by teachers for the Technical Skills Assessment. Below is a sample item for each program standard.)

Question 1 of 19

Which problem-solving technique is a "text-based" algorithm design?

- A) Bottom-up
- B) Flowchart
- C) Top-down
- D) Pseudo-code

Question 2 of 19

What method is RECOMMENDED to a company to protect against software defects threatening software security?

- A) Virus protection software
- B) Two-factor authentication
- C) Risk analysis
- D) Facial recognition software

Question 3 of 19

What is a legal use for a copy of non-open source personal software?

- A) Distribute on the Internet
- B) Sell copies
- C) Keep as a backup
- D) Provide a copy to a friend

Question 4 of 19

What language is considered a HIGH LEVEL language?

- A) Java
- B) Cobol
- C) Linux
- D) Microsoft Office

Question 5 of 19

What is the value of x given this code segment? $X=(5+8\div 3-1*2)$

- A) 5
- B) -1
- C) 0
- D) 9

Question 6 of 19

Which would check x for being a negative number?

- A) $x = 0$
- B) $x < 1$
- C) $x < 0$
- D) $x > 1$

Question 7 of 19

Which type of variable is used to start AND stop a loop?

- A) Functional
- B) Control
- C) Input
- D) Global

Question 8 of 19

How are the elements of a two-dimensional (2D) array arranged?

- A) Rows and columns
- B) Vertically only
- C) Horizontally only
- D) Numerically in ascending order

Question 9 of 19

Which type of programming focuses on the visual aspects of a website?

- A) Back end development
- B) Database development
- C) Front end development
- D) Desktop development

Question 10 of 19

What is a program that enables users to navigate the web?

- A) Web server
- B) Browser
- C) FTP client
- D) Website

Question 11 of 19

An app asks the user for his age. Which code would GUARANTEE a valid age?

- A) if (age >= 0 OR age < 100)
- B) if (age >= 0 OR age > 100)
- C) if (age >= 0 AND age > 100)
- D) if (age >= 0 AND age <= 100)

Question 12 of 19

The refactoring technique to help reduce repetitious code would be to place code in which type of class?

- A) Child
- B) Parent
- C) New
- D) Duplicate

Question 13 of 19

In programming, which type of error is a bug in a program that causes the program to run incorrectly but NOT crash?

- A) Syntax
- B) Semantic
- C) Runtime
- D) Logic

Question 14 of 19

What is a benefit of using a third-party library when creating a software application?

- A) App runs faster
- B) More secure from hacks
- C) Smaller app file size
- D) Shorter development time

Question 15 of 19

Which version control process duplicates a program allowing multiple versions to exist?

- A) Branching
- B) Compiling
- C) Looping
- D) Switching

Question 16 of 19

A student wants to place an image exactly 10 pixels from the top and exactly 10 pixels from the left side of a web browser. Which CSS property SHOULD be used?

- A) Sticky
- B) Absolute
- C) Initial
- D) Relative

Question 17 of 19

What is the term for information added to a database?

- A) Record
- B) Cell
- C) Row
- D) Column

Question 18 of 19

Which is a keyword in object-oriented languages that set the accessibility of classes, methods, and other members?

- A) Array
- B) Refiner
- C) Modifier
- D) Qualifier

Question 19 of 19

What information may compilers and interpreters provide when identifying an error?

- A) Frequency of error
- B) Programmer responsible for error
- C) Timeline of error
- D) Line of error

Software and App Design Sample Test Answer Key

Question	Answer
1.	D
2.	C
3.	C
4.	A
5.	A
6.	C
7.	B
8.	A
9.	C
10.	B
11.	D
12.	B
13.	D
14.	D
15.	A
16.	B
17.	A
18.	C
19.	D