Exam

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) Why do computers use zeros and ones? 1) _____
   A) because binary numbers are simplest.
   B) because digital devices have two stable states and it is natural to use one state for 0 and the other for 1.
   C) because binary numbers are the bases upon which all other number systems are built.
   D) because combinations of zeros and ones can represent any numbers and characters.

2) _____ is the brain of a computer. 2) _____
   A) CPU   B) Hardware   C) Memory   D) Disk

3) Computer can execute the code in _____. 3) _____
   A) assembly language   B) machine language
   C) high-level language   D) none of the above

4) _____ is a program that runs on a computer to manage and control a computer's activities. 4) _____
   A) Java
   B) Compiler
   C) Operating system
   D) Modem
   E) Interpreter

5) Java was developed by _____. 5) _____
   A) Oracle
   B) Sun Microsystems
   C) Cisco Systems
   D) Microsoft
   E) IBM

6) The main method header is written as: 6) _____
   A) public static main(String[ ] args)
   B) public static void main(String[ ] args)
   C) public void main(String[ ] args)
   D) public static void Main(String[ ] args)
   E) public static void main(string[ ] args)

7) Which of the following statements is correct? 7) _____
   A) Every comment line must end with a semicolon.
   B) Every line in a program must end with a semicolon.
   C) Every class must end with a semicolon.
   D) Every method must end with a semicolon.
   E) Every statement in a program must end with a semicolon.

8) Suppose you define a Java class as follows:

public class Test {

}

In order to compile this program, the source code should be stored in a file named
   A) Test.doc
   B) Test.class
   C) Test.java
   D) Test.txt
   E) Any name with extension .java

8) _____

9) Which of the following lines is not a Java comment? (Choose all that apply.)
   A) /** comments */   B) // comments   C) /* comments */   D) -- comments

9) _____

10) Every statement in Java ends with _____.
   A) a semicolon (;)   B) a comma (,)   C) an asterisk (*)   D) a period (.)

10) _____

11) A block is enclosed inside _____.
   A) quotes   B) brackets   C) parentheses   D) braces

11) _____

12) Java is an object-oriented programming language.
   A) true   B) false

12) _____

13) Every letter in a Java keyword is in lowercase.
   A) true   B) false

13) _____

14) _____ translates high-level language program into machine language program.
   A) A compiler   B) An assembler
   C) CPU   D) The operating system

14) _____

15) If you forget to put a closing quotation mark on a string, what kind error will be raised?
   A) Syntax error   B) a logic error
   C) a runtime error   D) No error

15) _____

16) Programming style is important, because _____.
   A) good programming style helps reduce programming errors
   B) good programming style makes a program less readable
   C) a program may not compile if it has a bad style
   D) good programming style can make a program run faster

16) _____

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17) Analyze the following code.   17) _____

I:

```java
public class Test {

  public static void main(String[] args) {

    System.out.println("Welcome to Java!");

  }

}
```

II:

```java
public class Test {  public static void main(String[] args) {    System.out.println("Welcome to
Java!");  } }
```

A) Both I and II can compile and run and display Welcome to Java, but the code in II has a
   better style than I.
B) Only the code in I can compile and run and display Welcome to Java.
C) Both I and II can compile and run and display Welcome to Java, but the code in I has a
   better style than II.
D) Only the code in II can compile and run and display Welcome to Java.

18) If a program compiles fine, but it produces incorrect result, then the program suffers   18) _____
_____.
   A) a logic error   B) a syntax error   C) a runtime error   D) bad taste error

19) Java compiler translates Java source code into _____.   19) _____
   A) Java bytecode   B) machine code
   C) another high-level language code   D) assembly code

20) _____ translates high-level language program into machine language program.   20) _____
   A) A compiler   B) An assembler
   C) CPU   D) The operating system

21) A Java application must have a main method.   21) _____
   A) False   B) True