Quiz 1 Introduction to Computers, Programs, and Java

1. \_\_\_\_\_\_\_\_ is the physical aspect of the computer that can be seen.

a. Hardware

b. Software

c. Operating system

d. Application program

Key:a

2. \_\_\_\_\_\_\_\_\_\_ is the brain of a computer.

a. Hardware

b. CPU

c. Memory

d. Disk

Key:b

3. The speed of the CPU may be measured in \_\_\_\_\_\_\_\_\_\_.

a. megabytes

b. gigabytes

c. megahertz

d. gigahertz

Key:cd 1 megahertz equals 1 million pulses per second and 1 gigahertz is 1000 megahertz.

4. Why do computers use zeros and ones?

a. because combinations of zeros and ones can represent any numbers and characters.

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 simplest.

d. because binary numbers are the bases upon which all other number systems are built.

Key:b

5. One byte has \_\_\_\_\_\_\_\_ bits.

a. 4

b. 8

c. 12

d. 16

Key:b

6. Which of the following is not permanent storage devices?

a. floppy disk

b. hard disk

c. flash stick

d. CD-ROM

e. main memory

Key:e Disks and CD are used to store data permanently. Data in memory is lost after the power is turned off.

7. \_\_\_\_\_\_\_\_\_\_\_\_ is a device to connect a computer to a local area network (LAN).

a. Regular modem

b. DSL

c. Cable modem

d. NIC

Key:d Network Interface Card (NIC) is a device to connect a computer to a local area network.

8. \_\_\_\_\_\_\_\_\_\_\_\_ are instructions to the computer.

a. Hardware

b. Software

c. Programs

d. Keyboards

Key:bc

9. Computer can execute the code in \_\_\_\_\_\_\_\_\_\_\_\_.

a. machine language

b. assembly language

c. high-level language

d. none of the above

Key:a

10. \_\_\_\_\_\_\_\_\_\_\_ translates high-level language program into machine language program.

a. An assembler

b. A compiler

c. CPU

d. The operating system

Key:b

11. \_\_\_\_\_\_\_\_\_\_\_\_ is an operating system.

a. Java

b. C++

c. Windows

d. Visual Basic

e. Ada

Key:c

12. \_\_\_\_\_\_\_\_\_\_\_\_\_ is a program that runs on a computer to manage and control a computer's activities.

a. Operating system

b. Java

c. Modem

d. Interpreter

e. Compiler

Key:a

13. Java was developed by \_\_\_\_\_\_\_\_\_\_\_\_.

a. Sun Microsystems

b. Microsoft

c. Apple

d. IBM

e. Cisco Systems

Key:a

14. Due to security reasons, Java \_\_\_\_\_\_\_\_\_\_\_ cannot run from a Web browser in the new version of Java.

a. applications

b. applets

c. servlets

d. Micro Edition programs

Key:b

15. \_\_\_\_\_\_\_\_ is not an object-oriented programming language.

a. Java

b. C++

c. C

d. C#

e. Python

Key:c

16. \_\_\_\_\_\_\_\_ is interpreted.

a. Java

b. C++

c. C

d. Ada

e. Pascal

Key:a

17. \_\_\_\_\_\_\_\_ is architecture-neutral.

a. Java

b. C++

c. C

d. Ada

e. Pascal

Key:a

18. \_\_\_\_\_\_\_\_ is a technical definition of the language that includes the syntax and semantics of the Java programming language.

a. Java language specification

b. Java API

c. Java JDK

d. Java IDE

Key:a

19. \_\_\_\_\_\_\_\_ contains predefined classes and interfaces for developing Java programs.

a. Java language specification

b. Java API

c. Java JDK

d. Java IDE

Key:b

20. \_\_\_\_\_\_\_\_ consists of a set of separate programs for developing and testing Java programs, each of which is invoked from a command line.

a. Java language specification

b. Java API

c. Java JDK

d. Java IDE

Key:c

21. \_\_\_\_\_\_\_\_ provides an integrated development environment (IDE) for rapidly developing Java programs. Editing, compiling, building, debugging, and online help are integrated in one graphical user interface.

a. Java language specification

b. Java API

c. Java JDK

d. Java IDE

Key:d

Section 1.7 A Simple Java Program

22. The main method header is written as:

a. public static void main(string[] args)

b. public static void Main(String[] args)

c. public static void main(String[] args)

d. public static main(String[] args)

e. public void main(String[] args)

Key:c

23. Which of the following statements is correct?

a. Every line in a program must end with a semicolon.

b. Every statement in a program must end with a semicolon.

c. Every comment line must end with a semicolon.

d. Every method must end with a semicolon.

e. Every class must end with a semicolon.

Key:b

24. Which of the following statements is correct to display Welcome to Java on the console?

a. System.out.println('Welcome to Java');

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

c. System.println('Welcome to Java');

d. System.out.println('Welcome to Java");

e. System.out.println("Welcome to Java');

Key:b

25. The JDK command to compile a class in the file Test.java is

a. java Test

b. java Test.java

c. javac Test.java

d. javac Test

e. JAVAC Test.java

Key:c

26. Which JDK command is correct to run a Java application in ByteCode.class?

a. java ByteCode

b. java ByteCode.class

c. javac ByteCode.java

d. javac ByteCode

e. JAVAC ByteCode

Key:a

27. Java compiler translates Java source code into \_\_\_\_\_\_\_\_\_.

a. Java bytecode

b. machine code

c. assembly code

d. another high-level language code

Key:a

28. \_\_\_\_\_\_\_\_\_ is a software that interprets Java bytecode.

a. Java virtual machine

b. Java compiler

c. Java debugger

d. Java API

Key:a

29. Suppose you define a Java class as follows, the source code should be stored in a file named \_\_\_\_\_\_\_\_\_.

public class Test {

}

a. Test.class

b. Test.doc

c. Test.txt

d. Test.java

e. Any name with extension .java

Key:d

30. The extension name of a Java bytecode file is

a. .java

b. .obj

c. .class

d. .exe

Key:c

31. The extension name of a Java source code file is

a. .java

b. .obj

c. .class

d. .exe

Key:a

32. Which of the following lines is not a Java comment?

a. /\*\* comments \*/

b. // comments

c. -- comments

d. /\* comments \*/

e. \*\* comments \*\*

Key:ce

33. Which of the following are the reserved words?

a. public

b. static

c. void

d. class

Key:abcd

34. Every statement in Java ends with \_\_\_\_\_\_\_\_.

a. a semicolon (;)

b. a comma (,)

c. a period (.)

d. an asterisk (\*)

Key:a

35. A block is enclosed inside \_\_\_\_\_\_\_\_\_\_.

a. parentheses

b. braces

c. brackets

d. quotes

Key:b

36. Programming style is important, because \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. a program may not compile if it has a bad style

b. good programming style can make a program run faster

c. good programming style makes a program more readable

d. good programming style helps reduce programming errors

Key:cd

37. Analyze the following code.

I:

public class Test {

public static void main(String[] args) {

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

}

}

II:

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. Only the code in II can compile and run and display Welcome to Java.

d. Both I and II can compile and run and display Welcome to Java, but the code in I has a better style than II.

Key:d

38. Which of the following code has the best style?

I:

public class Test {

public static void main(String[] args) {

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

}

}

II:

public class Test {

public static void main(String[] args) {

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

}

}

III:

public class Test {

public static void main(String[] args) {

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

}

}

IV:

public class Test {

public static void main(String[] args) {

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

}

}

a. I

b. II

c. III

d. IV

Key:d

39. If a program compiles fine, but it produces incorrect result, then the program suffers \_\_\_\_\_\_\_\_\_\_.

a. a compilation error

b. a runtime error

c. a logic error

Key:c

40. If you forget to put a closing quotation mark on a string, what kind of error will be raised?

a. a compile error

b. a runtime error

c. a logic error

Key:a This is a syntax error, which will be detected by the compiler.