

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

- 1) \_\_\_\_\_ is the physical aspect of the computer that can be seen.  
 A) Hardware B) Application program  
 C) Operating system D) Software  
 Answer: A
- 2) \_\_\_\_\_ is the brain of a computer.  
 A) Memory B) Hardware C) Disk D) CPU  
 Answer: D
- 3) The speed of the CPU is measured in \_\_\_\_\_. (Choose all that apply.)  
 A) gigabytes B) megabytes C) megahertz D) gigahertz  
 Answer: C, D

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

- 5) One byte has \_\_\_\_\_ bits.  
 A) 16 B) 12 C) 8 D) 4  
 Answer: C
- 6) Which of the following are storage devices? (Choose all that apply.)  
 A) hard disk B) flash stick C) CD-ROM D) floppy disk  
 Answer: A, B, C, D

- 7) \_\_\_\_\_ is a device to connect a computer to a local area network (LAN).  
 A) NIC B) Regular modem C) Cable modem D) DSL  
 Answer: A

- 8) \_\_\_\_\_ are instructions to the computer. (Choose all that apply.)  
 A) Hardware B) Keyboards C) Software D) Programs  
 Answer: C, D

- 9) Computer can execute the code in \_\_\_\_\_.  
 A) assembly language B) high-level language  
 C) machine language D) none of the above  
 Answer: C

- 10) \_\_\_\_\_ translates high-level language program into machine language program.  
 A) CPU B) An assembler  
 C) The operating system D) A compiler  
 Answer: D

- 11) \_\_\_\_\_ is an operating system.  
 A) C++ B) Java C) Ada D) Visual Basic E) Windows XP  
 Answer: E

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

Answer: E

- 13) Java was developed by \_\_\_\_\_.
- A) IBM
  - B) Sun Microsystems
  - C) Microsoft
  - D) Cisco Systems
  - E) Oracle

Answer: B

- 14) Java \_\_\_\_\_ can run from a Web browser.

- A) applets
- B) Micro Edition programs
- C) servlets
- D) applications

Answer: A

- 15) \_\_\_\_\_ is an object-oriented programming language. (Choose all that apply.)

- A) C
- B) C++
- C) Ada
- D) Java
- E) Pascal

Answer: B, D

- 16) \_\_\_\_\_ is interpreted.

- A) C
- B) Ada
- C) Pascal
- D) C++
- E) Java

Answer: E

- 17) \_\_\_\_\_ is Architecture-Neutral.

- A) Pascal
- B) C
- C) Java
- D) C++
- E) Ada

Answer: C

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

- A) Java IDE
- B) Java language specification
- C) Java JDK
- D) Java API

Answer: B

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

- A) Java IDE
- B) Java JDK
- C) Java API
- D) Java language specification

Answer: C

- 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 JDK
- B) Java language specification
- C) Java API
- D) Java IDE

Answer: A

- 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 JDK
  - B) Java language specification
  - C) Java IDE
  - D) Java API

Answer: C

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

Answer: E

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

Answer: D

- 24) Which of the following statements is correct to display Welcome to Java on the console? (Choose all that apply.)
- A) System.out.print('Welcome to Java');
  - B) System.out.println("Welcome to Java");
  - C) System.out.println("Welcome to Java");
  - D) System.out.print("Welcome to Java");
  - E) System.println('Welcome to Java');

Answer: C, D

- 25) The JDK command to compile a class in the file Test.java is
- A) javac Test.java
  - B) java Test.java
  - C) JAVAC Test.java
  - D) java Test
  - E) javac Test

Answer: A

- 26) Which JDK command is correct to run a Java application in ByteCode.class?
- A) javac ByteCode.java
  - B) java ByteCode.class
  - C) JAVAC ByteCode
  - D) javac ByteCode
  - E) java ByteCode

Answer: E

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

Answer: B

- 28) \_\_\_\_\_ is a software that interprets Java bytecode.
- A) Java virtual machine
  - B) Java compiler
  - C) Java API
  - D) Java debugger

Answer: A

- 29) 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.class
  - B) Test.java
  - C) Test.txt
  - D) Test.doc
  - E) Any name with extension .java
- 30) The extension name of a Java bytecode file is
- A) .obj
  - B) .exe
  - C) .java
  - D) .class

Answer: D

- 31) The extension name of a Java source code file is
- A) .exe
  - B) .obj
  - C) .class
  - D) .java

Answer: D

- 32) Which of the following lines is not a Java comment? (Choose all that apply.)

- A) `** comments **`
- B) `/** comments */`
- C) `/* comments */`
- D) `// comments`
- E) `-- comments`

Answer: A, E

- 33) Which of the following are the reserved words? (Choose all that apply.)
- A) void
  - B) static
  - C) public
  - D) class

Answer: A, B, C, D

- 34) Every statement in Java ends with \_\_\_\_\_.
- A) a comma (,)
  - B) an asterisk (\*)
  - C) a period (.)
  - D) a semicolon (;)

Answer: D

- 35) A block is enclosed inside \_\_\_\_\_.
- A) braces
  - B) quotes
  - C) parentheses
  - D) brackets

Answer: A

- 36) The \_\_\_\_\_ method displays a message dialog box. (Choose all that apply.)
- A) `JOptionPane.showMessageDialog(null, "Welcome to Java!", "Example 1.2 Output", JOptionPane.INFORMATION_MESSAGE);`
  - B) `JOptionPane.showMessageDialog(null, "Welcome to Java!");`
  - C) `JOptionPane.showMessageDialog(null, "Welcome to Java!", "Example 1.2 Output", JOptionPane.INFORMATION_MESSAGE);`
  - D) `JOptionPane.showMessageDialog(null, "Welcome to Java!", "Example 1.2 Output", JOptionPane.INFORMATION_MESSAGE);`
  - E) `JOptionPane.showMessageDialog(null, "Welcome to Java!", "Example 1.2 Output", JOptionPane.INFORMATION_MESSAGE);`

Answer: B, D

- 37) To use `JOptionPane` in your program, you may import it using: (Choose all that apply.)
- A) `import javax.*;`
  - B) `import javax.*.JOptionPane;`
  - C) `import javax.swing.JOptionPane;`
  - D) `import javax.swing.*;`

Answer: C, D