

B. Sc. Computer Science
Class:SYCS
Core Java
SEM III
Sample Questions

MULTIPLE CHOICE QUESTIONS

- 1) Java programs are
 - a. Faster than others
 - b. platform independent
 - c. Not reusable
 - d. Not scalable

- 2) Java has its origin in
 - a. C programming language
 - b. PERRL
 - c. COBOL
 - d. Oak programming language

- 3) Which one of the following is true for Java
 - a. Java is object-oriented and interpreted
 - b. Java is efficient and faster than C
 - c. Java is the choice of everyone.
 - d. Java is not robust.

- 4) The command javac is used to
 - a. debug a java program
 - b. compile a java program
 - c. interpret a java program
 - d. execute a java program

- 5) Java servlets are an efficient and powerful solution for creating for the web.
 - a. Dynamic content
 - b. Static content
 - c. Hardware
 - d. Both a and b

- 6) Filters were officially introduced in the Servlet specification.
 - a. 2.1
 - b. 2.3
 - c. 2.2
 - d. 2.4

- 7) Which is the root class of all AWT events

- a. java.awt.ActionEvent
- b. java.awt.AWTEvent
- c. java.awt.event.AWTEvent
- d. java.awt.event.Event

8) OOP features are

- i) Increasing productivity ii) Reusability
 - iii) Decreasing maintenance cost iv) High vulnerability
- a. 1,2 & 4
 - b. 1,2 & 3
 - c. 1, 2 & 4
 - d. 1,3 & 4

9) break statement is used to

- i) get out of method ii) end a program
 - iii) get out of a loop iv) get out of the system
- a. 1 & 2
 - b. 1,2 & 3
 - c. 1 & 3
 - d. 3

10) Native-protocol pure Java converts into the used by DBMSs directly.

- a. JDBC calls, network protocol
- b. ODBC class, network protocol
- c. ODBC class, user call
- d. JDBC calls, user call

11) All Java classes are derived from

- a. java.lang.Class
- b. java.util.Name
- c. java.lang.Object
- d. java.awt.Window

12) The jdb is used to

- a. Create a jar archive
- b. Debug a java program
- c. Create a C header file
- d. Generate java documentation

13) What would happen if “String[]args” is not included as an argument in the main method?

- a. No error
- b. Compilation error
- c. The program won't run
- d. Program exit

14) For the execution of DELETE SQL query in JDBC, method must be used.

- a. executeQuery()
- b. executeDeleteQuery()
- c. executeUpdate()
- d. executeDelete()

15) Which method will a web browser call on a new applet?

- a. main method
- b. destroy method
- c. execute method
- d. init method

16) Which of the following is not mandatory in a variable declaration?

- a. a semicolon
- b. an identifier
- c. an assignment
- d. a data type

17) When a programming class implements an interface, it must provide behavior for

- a. two methods defined in that interface
- b. any methods in a class
- c. only certain methods in that interface
- d. all methods defined in that interface

18) In order to run JSP is required.

- a. Mail Server
- b. Applet viewer
- c. Java Web Server
- d. Database connection

19) State true or false.

i) AWT is an extended version of swing

ii) Paint() of Applet class cannot be overridden

- a. i-false, ii-false
- b. i-false,ii-true
- c. i-true, ii-false
- d. i-true, ii-true

20) Prepared Statement object in JDBC used to execute..... queries.

- a. Executable
- b. Simple
- c. High level
- d. Parameterized

21) In Java variables, if first increment of the variable takes place and then the assignment occurs. This operation is also called.....

- a. pre-increment

- b. post-increment
- c. incrementation
- d. pre incrementation

22) When the operators are having the same priority, they are evaluated from
..... in the order they appear in the expression.

- a. right to left
- b. left to right
- c. any of the order
- d. depends on the compiler

23) In Java, can only test for equality, whereas can evaluate any type of Boolean expression.

- a. switch, if
- b. if, switch
- c. if, break
- d. continue, if

24) The looks only for a match between the value of the expression and one of its case constants.

- a. if
- b. match
- c. switch
- d. for

25) System.in.read() is being used, the program must specify the clause.

- a. throws.java.out.IOException
- b. throws.java.in.IOException
- c. throws.java.io.IOException
- d. throws.java.io.InException

26) By using you can force immediate termination of a loop, bypassing the conditional expression and any remaining code in the body of the loop.

- a. Break
- b. Continue
- c. Terminate
- d. Loop Close

27) The out object is an object encapsulated inside the class and represents the standard output device.

- a) standard
- a. local
- b. global
- c. system

28) The third type of comment is used by a tool called for automatic generation of documentation.

- a. Java commenting
- b. Java generator
- c. Java doc
- d. Java loc

29) In the second type, the information written in java after // is ignored by the

- a. Interpreter
- b. Compiler
- c. Programmer
- d. Assembler

30) The compiled Java program can run on any platform having Java Virtual Machine (JVM) installed on it.

- a. program
- b. java
- c. hardware
- d. nonjava

31) JSP embeds in in

- a. Servlet, HTML
- b. HTML, Java
- c. HTML, Servlet
- d. Java, HTML

32) The class at the top of exception class hierarchy is

- a. ArithmeticException
- b. Throwable
- c. Class
- d. Exception

33) In a java program, package declaration import statements.

- a. must precede
- b. must succeed
- c. may precede or succeed
- d. must precede and succeed

34) The class string belongs to package.

- a) java.awt
- a. java.lang
- b. java.applet
- c. java.string

35) package is used by the compiler itself. So it does not need to be imported for use.

- a. java.math
- b. java.awt
- c. java.applet
- d. java.lang

36) State true or false for the following statements in Java.

- i) Java beans slow down the software development process.
- ii) Java Servlets do not have built-in multithreading feature.
 - a. i-false, ii-false
 - b. i-false, ii-true
 - c. i-true, ii-false
 - d. i-true, ii-true

37) State whether true or false.

- i) init() of a servlet is called after a client request comes in
- ii) Servlets are ultimately converted into JSP
 - a. i-false, ii-false
 - b. i-false, ii-true
 - c. i-true, ii-false
 - d. i-true, ii-true

38) What will be the result of compiling the following code?

```
public class MyClass {
public static void main(String args[]){
System.out.println("In first main()");
}
public static void main(char args[]){
System.out.println('a');
}
}
```

- a. The code will not compile and will give "Duplicate main() method declaration" error
- b. The code will compile correctly but will give a runtime exception
- c. The code will compile correctly and will print "In first main()" (without quotes) when it is run
- d. The code will compile correctly and will print "a" (without quotes) when it is run

39) Match the following.

- i) Java 1) is a tool for debugging java program
- ii) Javah 2) is a tool for creating C-like header files
- iii) Javap 3) runs java bytecode
- iv) jdb 4) prints java code representation

- a. a-iii, b-ii, c-i

- b. a-iii, b-ii, c-iv, d-i
- c. a-ii, b-ii, c-iii, d-iv
- d. a-ii, b-i, c-iii, d-iv

40) State true or false.

- i) init() is called after start() in applet
- ii) applets are used for networking
- iii) inheritance is a part of Java Foundation Classes
- iv) final does not prevent inheritance

- a. i-true, ii-true, iii-false, iv-true
- b. i-false, ii-false, iii-false, iv-false
- c. i-true, ii-true, iii-true, iv-true
- d. i-true, ii-false, iii-false, iv-false

41) Using which keyword we can access the value of the instance variables and class variables of that class inside the method of that class itself.

- a. super
- b. final
- c. this
- d. either super or this

42) If a variable is declared final, it must include value.

- a. integer
- b. no
- c. initial
- d. float

43) State true or false.

- i) JPanel is a class included in awt package.
- ii) Anonymous classes are mostly used for event handling.
- iii) Names of anonymous classes must be unique
- iv) JOptionPane is an inner class

- a. i-false, ii-false, iii-true, iv-true
- b. i-true, ii-false, iii-true, iv-false
- c. i-false, ii-true, iii-false, iv-false
- d. i-true, ii-false, iii-false, iv-true

44) In Java, a string is a

- a. primitive data type
- b. abstract data type
- c. combination of boolean
- d. Public data type

45) Methods can be overloaded with a difference only in the type of the return value.

- a. Not supported
- b. False
- c. True
- d. Supported

46) Each method in a java class must have a unique name.

- a. Not necessary
- b. True
- c. False
- d. Necessary

47) State true or false.

- i) comparisons precede logical operations in java
- ii) assignment operations succeed increment operations
- iii) arithmetic operations succeed comparisons
- iv) x precede +

- a. i-true, ii-true, iii-false, iv-true
- b. i-true, ii-false, iii-true, iv-false
- c. i-false, ii-true, iii-false, iv-false
- d. i-true, ii-false, iii-false, iv-true

48) It is an important feature of java that it always provides a default constructor to a class.

- a. Not supported
- b. False
- c. True
- d. Supported

49) is the key to

- a. Serialization, persistence
- b. Persistence, inheritance
- c. Inheritance, object
- d. Persistence, serialization

50) State true or false.

- i) The public can only be assigned to class
- ii) Protected protects a statement
- iii) Protected method is never accessible outside the package
- iv) Friendly variable may be accessible outside the class

- a. i-true, ii-true, iii-false, iv-true
- b. i-true, ii-false, iii-true, iv-false
- c. i-false, ii-true, iii-false, iv-false
- d. i-true, ii-false, iii-false, iv-true

51) In java a is a sequence of characters.

- a. string
- b. arrayChar
- c. groupChar
- d. collection

52) Java programs perform I/O through

- a. I/O methods
- b. I/O package
- c. streams
- d. compiler

53) What is the byte code in the context of Java?

- a. The type of code generated by a Java compiler
- b. The type of code generated by a Java Virtual Machine
- c. It is another name for Java source file
- d. It is the code written within the instance methods of a class

54) Which of the following statements about abstract methods/classes in Java is true?

- a. An abstract class cannot be instantiated.
- b. Constructors can be abstract.
- c. A subclass of an abstract class must define the abstract methods.
- d. Static methods may be declared abstract.

55) Which of the following statement is false?

- a. The sleep() method should be enclosed in try atch block
- b. The yield() method should be enclosed in try catch block.
- c. A thread can be temporarily suspended from running by using the wait() method.
- d. A suspended thread using suspend() method can be revived using the resume() method.

56) The new operator dynamically allocatesfor an object and returns a reference to it.

- a. classes
- b. variables
- c. memory
- d. method

57) Which of the following statements correctly describes an interface?

- a. It's a concrete class
- b. It's a superclass
- c. It's a type of abstract class
- d. It's a subclass

58) What is the priority of the Garbage collector thread of JDK?

- a. Low Priority
- b. Highest Priority
- c. Medium Priority
- d. Decided at run time

- 59) is a feature that allows one interface to be used for a general class of actions.
- a. Class
 - b. Inheritance
 - c. Polymorphism
 - d. Interface
- 60) The default package that is implicitly called in a java program is
- a. java.Lang
 - b. java.System
 - c. java.Window
 - d. java.Lang.System
- 61) Java was developed by the company
- a. Sun Microsystems
 - b. Microsoft
 - c. Micro-tech
 - d. IBM
- 62) What is the file extension of a compiled java program?
- a. .class
 - b. .java
 - c. .css
 - d. .html
- 63) keyword is used to invoke the current object.
- a. New
 - b. That
 - c. This
 - d. Me
- 64) Which of the function is used to convert string to Number in java program?
- a. to Number()
 - b. conString()
 - c. valueOf()
 - d. toString()
- 65) What are the part in executing a Java program and their purposes?
- a. Java Compiler
 - b. Java Interpreter
 - c. Java Pre-processor
 - d. Directive Pre-processor
- 66) Method overloading is one of the ways that Java supports
- a. encapsulation
 - b. class

- c. inheritance
- d. polymorphism

67) Java support RMI. What does this RMI stand for?

- a. Random Memory Interface
- b. Remote Method Invocation
- c. Random Method Invocation
- d. Remote Memory Interface

68) Which of the following represent legal flow control statements?

- a. break;
- b. break();
- c. continue(inner);
- d. exit();

69) The keywords reserved but used in the initial version of Java are

- a. union
- b. const
- c. inner
- d. goto

70) What is the default return type of main().

- a. void
- b. double
- c. float
- d. int

71) If m and n are int type variables, what will be the result of the expression $m\%n$ when $m=-14$ and $n=-3$?

- a. 4
- b. 2
- c. -2
- d. -4

72) Consider the following code

```
if(number>=0)
if(number>0)
system.out.println("Number is positive");
else
system.out.println("Number is negative");
What will be the output if number is equal to 0?
```

- a. Number is negative
- b. Number is positive
- c. Both A and B

d. Number is zero

73) Consider the following code:

```
char c='a';
switch (c)
{
case 'a';
system.out.println("A");
case 'b';
system.out.println("B");
default;
system.out.println("C");
}
```

For this code, which of the following statement is true?

- a. The output will be A
- b. The output will be A followed by B
- c. The output will be A, followed by B, and then followed by C
- d. Code is illegal and therefore will not compile

74) Consider the following class definition.

```
class Student extends String
{
}
```

What happens when we try to compile this class?

- a. Will not compile because the class body is not defined
- b. Will not compile because the class is not declared public.
- c. Will not compile because the string is abstract.
- d. Will not compile because the string is final.

75) What is wrong in the following class definitions?

```
abstract class print
{
abstract show();
}
class Display extends Print
{
}
```

- a. Nothing is wrong

- b. Wrong. Method show() should have a return type
- c. Wrong. Method show() is not implemented in Display
- d. Wrong. The display does not contain any numbers.

76) What is the error in the following class definitions?

```
abstract class XY
{
abstract sum(int x, int y){ }
}
```

- a. The class header is not defined properly
- b. The constructor is not defined
- c. A method is not defined properly
- d. No error.

77) Which of the following statements are true?

- i) We cannot use abstract classes to instantiate objects directly.
 - ii) The abstract methods of an abstract class must be defined in its subclass.
 - iii) We cannot declare abstract constructors.
 - iv) We may declare abstract static methods.
- a. Line i only
 - b. Line ii only
 - c. Line i and ii only
 - d. Line i, ii and iii only

78) We would like to make a member of a class visible in all subclasses regardless of what package they are in. Which one of the following keywords would archive this?

- a. Private
- b. Protected
- c. Public
- d. Private Protected

79) The use of a protected keyword to a member in a class will restrict its visibility as follows:

- a. Visible only in the class and its subclass in the same package.
- b. Visible only inside the same package.
- c. Visible in all classes in the same package and subclasses in other packages
- d. Visible only in the class where it is declared.

80) Which of the following is not subclass of “writer” stream.

- a. FileWriter
- b. LineWriter
- c. BufferedWriter
- d. PrintWriter

81) In Java RMI, the stub is located in

- a. client machine
- b. proxy
- c. server
- d. server & Client

82) The new keyword will

- i) create in instance of an object
 - ii) create instance of a class
 - iii) assign memory to an array
 - iv) call the destructor of a class
- a. i and iii
 - b. ii and iii
 - c. i and ii
 - d. ii, iii and iv

83) Continue statement can be used

- i) anywhere inside main method
 - ii) anywhere inside class
 - iii) within instance methods
 - iv) only within looping statements
- a. i, ii and iii
 - b. i and iv
 - c. only iv
 - d. ii, iii and iv

84) ODBC stands for

- a. Object Data Binding Command
- b. Open Database Console
- c. Open Database Connectivity
- d. Open Database Command

85) Which of the following statement is/are true?

- i) The name of a java program file must match the name of the class with the extension .java
 - ii) Two methods cannot have the same name in java
- a. I only
 - b. II only
 - c. Both I and ii
 - d. None i and ii

86) Which of the following represent(s) of a hexadecimal number?

- a. 570
- b. (hex)5
- c. 0X9F
- d. 0X5

87) can appear only wherein the body of a Java method.

- a. definition
- b. declaration
- c. determine
- d. package

88) State whether the following statement is True or False?

i) The modulus operator(%) can be used only with integer operands

ii) Declarations can appear anywhere in the body of a Java method

- a. i-True, ii-False
- b. i-False, ii-True
- c. i-True, ii-True
- d. i-False, ii-False

89) Which of the following will produce a value of 22 if x=22.9?

- a. ceil(x)
- b. round(x)
- c. int(x)
- d. abs(x)

90) is passed to a method by use of call by reference.

- a. Variables
- b. Objects
- c. Methods
- d. Operators

91) Using the keyword interface you can fully abstract ...

- a. Method
- b. Keyword
- c. Class
- d. Variables

92) State True or False for the following statements in java.

i) All the bitwise operators have the same level of precedence in java

ii) The default case is always required in the switch selection structure.

- a. i-True, ii-False
- b. i-False, ii-True
- c. i-True, ii-True
- d. i-False, ii-False

93) Java is designed for environment of the Internet.

- a. Development
- b. Deduction
- c. Distributed
- d. Web Design

94) Which of the following will produce a value of 10 if $x=9.7$?

- a. floor(x)
- b. abs(x)
- c. rint(x)
- d. round(x)

95) Variable declared as do not occupy on a per-instance basis.

- a. Static
- b. Final
- c. Abstract
- d. Code

96) Which of the following is not keyword?

- a. NULL
- b. implements
- c. protected
- d. switch

97) The statement is used to terminate a statement sequence.

- a. Break
- b. Switch
- c. Continue
- d. Wait

98) Multidimensional arrays are actually

- a. Arrays of element
- b. Arrays of variable
- c. Arrays of arrays
- d. Arrays of variable

99) Which of the following keywords are used to control access to a class member?

i) default ii) abstract iii) protected iv) interface v) public

- a. i, ii and iii only
- b. ii, iii and iv only
- c. iii, iv and v only
- d. ii, iii and v only

100) is used for initializing the value to the string object.

- a. Character Literals
- b. String Literals

- c. String group literals
- d. Group literals