JAVA - UNIT - 1

1) Which of the following data types are available in Java?

A) Primitive Datatypes

B) Reference Datatypes

C) Both

D) None of the mentioned

2) How many Primitive data types are there in Java?

A) 4

B) 2

C) 8

D) 7

3) Which of the following data types comes under ‘Integer’ data type?

A) short

B) long

C) int

D) all of the mentioned

4) Which of the following data types comes under ‘Floating’ data type?

A) float

B) byte

C) double

D) a and c

5) Which of the following is not a primitive data type?

A) enum

B) short

C) byte

D) char

6) Which of the following data type stores longest floating-point value?

A) boolean

B) double

C) float

D) long

7) Which of the following data type is used to fetch stream of data from network or file?

A) char

B) int

C) byte

D) double

8) What is the minimum value of ‘short’ data type?

A) -32,768

B) -127

C) -2,147,483,648

D) -32,767

9) Which of the following is default value of ‘int’ data type?

A) 0

B) null

C) true

D) false

10) Which of the following is not considered as data type in Java?

A) String

B) int

C) boolean

D) double

11) Which of the following is smallest integer data type ?

A) int

B) byte

C) short

D) long

13) Character data type cannot store following value.

A) Digit

B) Letter

C) Special Character

D) String

14) Default value of variable having boolean data type is \_\_\_\_\_\_\_\_\_\_\_.

A) True

B) False

C) Null

D) Garbage

15) What will be the output of the program? $ class Main { $ public static void main(String args[]) { $ int t; $ System.out.println(t); $} $ }

A) 0

B) garbage value

C) compiler error

D) runtime error

16) What will be the output of the program? $class Test { $ public static void main(String[] args) { $ for(int i = 0; 0; i++) $ { $ System.out.println("Hello"); $ break; $ } $ } $ }

A) Hello

B) Empty Output

C) Compiler error

D) Runtime error

17) What will be the output of the program? $ class mainclass {$ public static void main(String args[]) $ {$ boolean var1 = true; $ boolean var2 = false; $ if (var1) $ System.out.println(var1); $ else $ System.out.println(var2); $ } $ }

A) 0

B) 1

C) true

D) false

18) Which of the following are legal lines of Java code? $ 1. int w = (int)888.8; $ 2. byte x = (byte)100L; $ 3. long y = (byte)100; $ 4. byte z = (byte)100L;

A) 1 and 2

B) 2 and 3

C) 3 and 4

D) All statements are correct

19) What will be the output of the program? $ class increment { $ public static void main(String args[]) $ { $ int g = 4; $ System.out.print(++g \* 8); $} $}

A) 32

B) 36

C) 40

D) 48

20) An expression involving byte, int, and literal numbers is promoted to which of these?

A) int

B) byte

C) long

D) float

21) Which data type value is returned by all transcendental math functions?

A) int

B) float

C) double

D) long

22) Which of these coding types is used for data type characters in Java?

A) ASCII

B) ISO-LATIN-1

C) UNICODE

D) None of the mentioned

23) Which one is a valid declaration of a boolean?

A) boolean b1 = 1;

B) boolean b2 = ‘false’;

C) boolean b3 = false;

D) boolean b4 = ‘true’

24) Which of these is long data type literal?

A) 0x99fffL

B) ABCDEFG

C) 0x99fffa

D) 99671246

25) Which of these can be returned by the operator &?

A) Integer

B) Boolean

C) Character

D) Integer or Boolean

26) Java Source Code is compiled into \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

A) .Obj

B) Source Code

C) Bytecode

D) .Exe

27) Which of the following operators can operate on a boolean variable? $ 1. && $ 2. == $ 3. ?: $ 4. +=

A) 3 & 2

B) 1 & 4

C) 1, 2 & 4

D) 1, 2 & 3

28) The following fraction of code $ double STATIC=45.7; $ System.out.println(STATIC);

A) Prints 45.7

B) Raises an error as STATIC is used as a variable which is keyword

C) Raises an exception

D) None of these

29) Guess the output of the following program - $ public class NumberSystem{ $ public static void main(String[] args){ $ int hexVal = 0x1a; $ System.out.println("Value : " + hexVal);$ } $ }

A) 25

B) 32

C) 26

D) 24

30) Guess the output of the following program - public class NumberSystem{ public static void main(String[] args){ int hexVal = 0x1a; System.out.println("Value : " + hexVal); } }

A) 25

B) 32

C) 26

D) 24

31) Which of the following Class is used to wrap boolean value.

A) java.util.Boolean

B) java.lang.Boolean

C) java.io.Boolean

D) None of these

32) Default value of "double" data type is \_\_\_\_\_\_\_\_\_\_\_.

A) Null

B) 0.0d

C) 0.0

D) 0

33) Predict the output of the following program. $ class Test $ { $ public static void main(String[] args) $ { $ Double object = new Double("2.4"); $ int a = object.intValue();$ byte b = object.byteValue(); $ float d = object.floatValue(); $ double c = object.doubleValue(); $ System.out.println(a + b + c + d ); $ }

A) 8

B) 8.8

C) 8.800000095367432

34) What will be the output of the program? $ class Test $ { $ public static void main(String [] args) $ {$ int x=20; $ String sup = (x < 15) ? "small" : (x < 22)? "tiny" : "huge"; $ System.out.println(sup); $ }

A) Small

B) Tiny

C) Huge

D) Compilation error

35) Which one of these lists contains only Java programming language keywords?

A) class, if, void, long, Int, continue

B) goto, instanceof, native, finally, default, throws

C) try, virtual, throw, final, volatile, transient

D) strictfp, constant, super, implements, do

E) byte, break, assert, switch, include

36) Which is a reserved word in the Java programming language?

A) Method

B) Native

C) Array

D) Reference

37) Which of these can not be used for a variable name in Java?

A) identifier

B) keyword

C) identifier & keyword

D) none of the mentioned

38) \_\_\_\_\_\_\_\_\_\_ represents an entity in the real world that can be distinctly identified.

A) A class

B) An object

C) A method

D) A data field

39) \_\_\_\_\_\_\_ is a construct that defines objects of the same type.

A) A class

B) An object

C) A method

D) A data field

40) An object is an instance of a \_\_\_\_\_\_\_\_\_\_.

A) Program

B) Class

C) Method

D) Data

41) The keyword \_\_\_\_\_\_\_\_\_\_ is required to declare a class.

A) public

B) private

C) class

D) All of the above.

42) \_\_\_\_\_\_\_\_\_is invoked to create an object.

A) constructor

B) the main method

C) a method with a return type

D) a method with the void return type

43) Which of the following statements are true?

A) A default constructor is provided automatically if no constructors areexplicitly declared in the class. The default constructor is a no-arg constructor.

B) At least one constructor must always be defined explicitly.

C) Every class has a default constructor.

D) None

44) Given the declaration Circle x = new Circle(), which of the following statement ismost accurate.

A) x contains an int value.

B) x contains an object of the Circle type.

C) x contains a reference to a Circle object.

D) You can assign an int value to x.

45) The default value for data field of a boolean type, numeric type, object type is\_\_\_\_\_\_\_\_\_\_\_, respectively.

A) true, 1, Null

B) false, 0, null

C) true, 0, null

D) true, 1, null

E) false, 1, null

50) Variables that are shared by every instances of a class are \_\_\_\_\_\_\_\_\_\_.

A) public variables

B) private variables

C) instance variables

D) class variables

51) You should add the static keyword in the place of ? in Line \_\_\_\_\_\_\_\_ in the followingcode:

1 public class Test {

2 private int age;

3

4 public ? int square(int n) {

5 return n \* n;

6 }

7

8 public ? int getAge() {

9 }

10}

A) in line 4

B) in line 8

C) in both line 4 and line 8

D) none

52) A method that is associated with an individual object is called \_\_\_\_\_\_\_\_\_\_.

A) a static method

B) a class method

C) an instance method

D) an object method

53) To declare a constant MAX\_LENGTH as a member of the class, you write

A) final static MAX\_LENGTH = 99.98;

B) final static float MAX\_LENGTH = 99.98;

C) static double MAX\_LENGTH = 99.98;

D) final static double MAX\_LENGTH = 99.98;

54) Suppose the xMethod() is invoked in the following constructor in a class, xMethod()is \_\_\_\_\_\_\_\_\_ in the class.

public MyClass()

{

xMethod();

}

A) a static method

B) an instance method

C) a static method or an instance method

D) None

55) To prevent a class from being instantiated, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A) don't use any modifiers on the constructor

B) use the public modifier on the constructor

C) use the private modifier on the constructor

D) use the static modifier on the constructor

56) Analyze the following code: public class Test { public static void main(String args[]) { NClass nc = new NClass(); nc.t = nc.t++; } } class NClass { int t; private NClass() { } }

A) The program has a compilation error because the NClass class has a privateconstructor.

B) The program does not compile because the parameter list of the main method iswrong.

C) The program compiles, but has a runtime error because t has no initial value.

D) The program compiles and runs fine.

57) When invoking a method with an object argument, \_\_\_\_\_\_\_\_\_\_\_ is passed.

A) the contents of the object

B) a copy of the object

C) the reference of the object

D) the object is copied, then the reference of the copied object

58) Given the declaration Circle[] x = new Circle[10], which of the following statementis most accurate?

A) x contains an array of ten int values.

B) x contains an array of ten objects of the Circle type.

C) x contains a reference to an array and each element in the array can hold areference to a Circle object.

D) x contains a reference to an array and each element in the array can hold aCircle object.

59) Which of this method is given parameter via command line arguments?

A) main()

B) recursive() method

C) Any method

D) System defined methods

60) Which of these data types is used to store command line arguments?

A) Array

B) Stack

C) String

D) Integer

61) How many arguments can be passed to main()?

A) Infinite

B) Only 1

C) System Dependent

D) None of the mentioned

62) Which of these is a correct statement about args in the following line of code?

public static void main(String args[])

A) args is a String

B) args is a Character

C) args is an array of String

D) args in an array of Character

63) Can command line arguments be converted into int automatically if required?

A) Yes

B) No

C) Compiler Dependent

D) Only ASCII characters can be converted

64) How can we declare a string object?declare a String object as follows:

A) String alphabet;

B) Float alphabet;

C) key alphabet

D) None

65) How to define the String constructor with no arguments?

A) alphabet = new String ("abcde");

B) alphabet = new String();

C) alphabet = new String{'a','b'};

D) All of the above

66) How to define the String constructor with arguments.

A) alphabet = new String ("abcde");

B) alphabet = new String();

C) alphabet = new String{'a','b'};

D) All of the above

67) Which statement is used to return the length of the alphabet string as 26.

A) alphabet.toUpperCase()

B) alphabet.toLowerCase()

C) alphabet.length()

D) None

68) Which statement is used to change every character of the alphabet string to uppercase letters;

A) alphabet.toUpperCase()

B) alphabet.toLowerCase()

C) alphabet.length()

D) None

69) Which statement is used to change every character of the alphabet string to lowercase letters;

A) alphabet.toUpperCase()

B) alphabet.toLowerCase()

C) alphabet.length()

D) None

70) Consider the following statement: String oldString = "Have a nice day!"; Which statement replaces every occurrence of the character 'a' in the old string with the character '-'. As a result, the variable newString should contain the following characters: "H-ve - nice d-y!"

A) alphabet.toUpperCase('a','-');

B) alphabet.toLowerCase('a','-');

C) String newString=oldString.toString();

D) String newString = oldString.replace('a','-');

71) Syntax to create a window screen object in Window Class.

A) Window object= Window();

B) screen.Window= new Window("Example\_1");

C) Window screen=new Window("Ex\_1.java","bold","red",23);

D) All above methods used

72) How to display Window screen object?

A) screen.show();

B) screen.showWindow();

C) both A & B

D) All the above

73) Importance of import statement in Java?

A) The import statement makes Java classes available to the program.

B) The import statement does not makes Java classes available to the program.

C) Not useful

D) None

74) The main method is a class method with the following signature: Choose the correct syntax from the following.

A) public static void main(String args());

B) public static void main(String[] args);

C) static void main();

D) void main(String[] args);

75) The class Window constructor should be defined as :

A) Window(String filename,String style,String color,int fontSize);

B) Window(String filename);

C) public Window(String filename,String style,String color,int fontSize);

D) None

76) Java allows a plus sign + to be used as a : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A) Union operator

B) string concatenation operator

C) Intersection operator

D) Arithmetic operator

77) The text areas of the window contain scroll bars on the \_\_\_\_\_\_\_\_\_\_\_ of the window.

A) left-hand side

B) upper side window

C) lower side window

D) right-hand side

78) The instance method clearTextArea() will allow you to clear

A) disappears scroll bar

B) text from the top left-hand corner of the text area

C) allow you to inspect the width and height of the window

D) the entire text area of all the text in the upper window.

79) The instance method closeWindowAndExit() does

A) close the window object and cause the computer to exit back to your operating system prompt.

B) just closes window

C) Both A & B

D) All the above

80) Defintion of dialog box is

A) DialogBox object that appears on the Window object

B) Used for the input of any string value via the keyboard

C) Does not receive any input from the keyword

D) objects on the pane is possible until data has been input

81) What is the syntax to code the constructor in class DialogBox. :

A) public DialogBox(Window parent,String prompt,66);

B) public Dialog(Window parent,String prompt);

C) public DialogBox(Window parent,"String prompt");

D) public DialogBox(Window parent,String prompt);

82) To create a DialogBox object you must use the \_\_\_\_\_\_\_\_\_\_

A) class constructor

B) default constructor

C) formal parameters

D) all above is required

83) How to display DialogBox window?

A) screen.show();

B) screen.showDialogBox();

C) objectname.showDialogBox();

D) None

84) What is the use of parent in dialogbox?

A) used as a cue to prompt container for input

B) Window type that specifies the container onto which to place the dialog box

C) both A & B

D) None

85) What is the use of prompt in dialogbox?

A) used as a cue to prompt for input

B) Window type that specifies the container onto which to place the dialog box

C) both A & B

D) None

86) Choose an example from the following as constructor for class DialogBox.

A) DialogBox input = new DialogBox(screen, prompt);

B) DialogBox input = new DialogBox(screen, "What is your name?");

C) DialogBox input = new DialogBox;

D) DialogBox input = new DialogBox();

87) How to get the name from the class dialog box. Choose from the following?

A) name = inputName.getString();

B) name=getString();

C) Name = inputName.get();

D) Name=getString();

88) The size of the args array is \_\_\_\_\_\_\_\_\_\_\_\_\_\_

A) args.length

B) argument=length

C) both A & B

D) args.length()