**CapGemini – java batch**

**Java Test – I Max Marks:20**

1

What is the numerical range of a char? (Choose one.)

A. –128 to 127

B. –(2 ^ 15) to (2 ^ 15) - 1

C. 0 to 32767

D. Platform dependent

E. 0 to 65535

2 Which three are valid declarations of a float? (Choose three.)

A. float f1 = -343;

B. float f2 = 3.14;

C. float f3 = 0x12345;

D. float f4 = 42e7;

E. float f5 = 2001.0D;

F. float f6 = 2.81F;

3

Which three are legal array declarations? (Choose three.)

A. int [] myScores [];

B. char [] myChars;

C. int [6] myScores;

D. Dog myDogs [];

E. Dog myDogs [7];

4

Which four describe the correct default values for array elements of the types indicated?

(Choose four.)

A. int -> 0

B. String -> “null”

C. Dog -> null

D. char -> ‘\u0000’

E. float -> 0.0f

F. boolean -> true

5

What is the most restrictive access modifier that will allow members of one class to have access to members of another class in the same package?

A. public

B. abstract

C. protected

D. synchronized

E. default access

6

**Guess the output:**

class Demo{

int x;

public static void main(String abc[])

{

System.out.println(x);

}

}

A 0

B 1

C Compile time error

D Runtime error

7

Which two of the following are legal declarations for nonnested classes and interfaces?

(Choose two.)

A. final abstract class Test {}

B. public static interface Test {}

C. final public class Test {}

D. protected abstract class Test {}

E. protected interface Test {}

F. abstract public class Test {}

8

Which two are valid declarations within an interface? (Choose two.)

A. public static short stop = 23;

B. protected short stop = 23;

C. transient short stop = 23;

D. final void madness(short stop);

E. public Boolean madness(long bow);

F. static char madness(double duty);

9

Given the following,

1. interface DoMath {

2. double getArea(int rad); }

3.

4. interface MathPlus {

5. double getVol(int b, int h); }

6.

7.

8.

which two code fragments inserted at lines 7 and 8 will compile? (Choose two.)

A. class AllMath extends DoMath {

double getArea(int r); }

B. interface AllMath implements MathPlus {

double getVol(int x, int y); }

C. interface AllMath extends DoMath {

float getAvg(int h, int l); }

D. class AllMath implements MathPlus {

double getArea(int rad); }

E. abstract class AllMath implements DoMath, MathPlus {

public double getArea(int rad) { return rad \* rad \* 3.14; } }

10

Given the following,

1. import java.awt.\*;

2. class Ticker extends Component {

3. public static void main (String [] args) {

4. Ticker t = new Ticker();

5.

6. }

7. }

which two of the following statements, inserted independently, could legally be inserted into

line 5 of this code? (Choose two.)

A. boolean test = (Component instanceof t);

B. boolean test = (t instanceof Ticker);

C. boolean test = t.instanceof(Ticker);

D. boolean test = (t instanceof Component);

E. boolean test = t.instanceof(Object);

F. boolean test = (t instanceof String);

11

If the java program **Sample** is executed as java **Sample 3 abc 5 ,** What will be the output in the following cases(guess the output for every statement) 3 marks

a System.out.println(args.length);

b System.out.println(args[1].length());

c System.out.println(args[1]);

12

Study the following snippet code and answer the questions: ( 4 marks)

Class A{

void m1(int x, float f){ } ---- A

void m1(int c){ } ---- B

}

Class B extends A{

int m1(int x,float f){ } ---- C

void m1(int x) ---------D

}

}

1. Which method in B is not valid.
2. What change will you make in the invalid method to make it valid.
3. Which are the overloaded methods.
4. Which are the overridden methods

13

Given the following,

1. System.out.print("Start ");

2. try {

3. System.out.print("Hello world");

4. throw new FileNotFoundException();

5. }

6. System.out.print(" Catch Here ");

7. catch(EOFException e) {

8. System.out.print("End of file exception");

9. }

10. catch(FileNotFoundException e) {

11. System.out.print("File not found");

12. }

and given that EOFException and FileNotFoundException are both subclasses of

IOException, and further assuming this block of code is placed into a class, which statement is

most true concerning this code?

A. The code will not compile.

B. Code output: Start Hello world File Not Found.

C. Code output: Start Hello world End of file exception.

D. Code output: Start Hello world Catch Here File not found.

14

Given the following,

1. class B extends A {

2. int getID() {

3. return id;

4. }

5. }

6. class C {

7. public int name;

8. }

9. class A {

10. C c = new C();

11. public int id;

12. }

which two are true about instances of the classes listed above? (Choose two.)

A. A is-a B

B. C is-a A

C. A has-a C

D. B has-a A

E. B has-a C

15

Given the following,

class A {

public void baz() {

System.out.println("A");

}

}

public class B extends A {

public static void main(String [] args) {

A a = new B();

a.baz();

}

public void baz() {

System.out.println("B");

}

}

what is the result?

A. A

B. B

C. Compilation fails.

D. An exception is thrown at runtime.