

1) Consider the following code and choose the correct output اختر  
المخرج الصحيح

```
public class Thirdquiz  
{  
    public static void main(String[] args) {  
        System.out.println(a);  
        int a = 10;  
    }  
}
```

A)0

b)10

c)1

d)Error

-----  
2) Consider the following code and choose the correct name of the object ما هو الاسم الصحيح للأوبجكت التابع ل سكندر

```
import java.util.Scanner;  
  
public class Thirdquiz{  
    public static void main(String args) {  
        Scanner kb = new Scanner(System.in);  
        System.out.print("Please Enter a number: ");  
        double num = kb.nextDouble();  
        System.out.println("You have entered: " + num);  
    }  
}
```

A) kb

b)Scanner

c)num

d) nextDouble

---

3) Consider the following code and choose the correct output اختر  
المخرج الصحيح

```
1. public class Thirdquiz{  
    public static void main(String args) {  
        int num1, num2;  
        num1 = num2 = 10;  
        System.out.println(num1 + " and " + num2);  
    }  
}
```

A) none of above

b)10 and 10

c)num1 and num2

d) 10 10

---

4)A java program that is meant to be run from a web browser is called

A. class

B. application

C. method

D. Applets

---

5) Consider the following code and choose the correct output

```
public class Thirdquiz{  
    public static void main(String[] args) {  
        String name = "Ahmad";  
        System.out.println(name.equals("ahmad"));  
    }  
}
```

- A)Error
- B)True
- C)False
- D)Ahmad

---

```
7) import java.util.Scanner;  
  
public class Thirdquiz{  
    public static void main(String[] args) {  
        Scanner kb = new Scanner(System.in);  
        int num = kb.nextDouble();  
        System.out.println(num);  
    } }  
}
```

- A)Error
- B)the value of variable num
- C)False

-----

8) Consider the following code and choose the correct output if we input the following text "Hello ICS 102 group"

```
import java.util.Scanner;

public class Thirdquiz{

public static void main(String[] args) {

Scanner kb = new Scanner(System.in);

String word = kb.next();

System.out.println(word);

}

}
```

- A) ICS
- B) group
- C) Hello ICS 102 group
- D) Hello

---

9) Consider the following code and choose the correct output if we input the following text "Hello ICS 102 group"

```
import java.util.Scanner;

public class Thirdquiz{

public static void main(String[] args) {

Scanner kb = new Scanner(System.in);

String word = kb.nextLine();

System.out.println(word);

}
```

}

A) ICS

B) group

C) Hello ICS 102 group

D) Hello

---

10) Consider the following code and .choose the correct output

```
public class Thirdquiz{  
    public static void main(String args) {  
        int num_wk = 2;  
        int salary_pr_wk = 1000;  
        int $total = num_wk * salary_pr_wk;  
        System.out.println("$" + $total);  
    }  
}
```

A) \$2000

B) Error

C) \$

D) 2000

---

11) Consider the following code and choose the line that will cause error  
اختر السطر الذي يسبب الخطأ

```
1 public class Thirdquiz{  
2 public static void main(String[] args) {  
3 int a = 10;  
4 double b = 1.5; C = 5.5;  
5 System.out.println(a + b + c); }}
```

- A) 2
  - B) 4**
  - C) 3
  - D) 5
- 

12) public class Thirdquiz{  
public static void main(String[] args) {  
int i = 5;  
System.out.println(++i); } }

- A) 6**
  - B)5
  - C)error
- 

14) public class Thirdquiz{  
public static void main(String[] args) {  
int i = 5;  
System.out.println(i++); } }

- A)6
  - B) 5**
  - C)error
- 

15) Consider the following code and choose the  
.correct output

1. public class Thirdquiz{

```
public static void main(String[] args) {  
    int i = (int)5.9;  
    System.out.println(i);  
}
```

A)6

B)5

C)error

D)5.9

---

16) takes a value of one type and produces a value of another type with an equivalent value?

A)type changing

B) type casting

C)All of the above

---

17) **Consider the following code what the correct output.**

```
public class Exam {  
    public static void main(String[] args) {  
        System.out.print("Hello");  
        System.out.print(" ");  
        System.out.print("World");  
    }  
}
```

Hello World
-------------

---

18) **Consider the following code what the correct output.**

```
public class Exam {  
    public static void main(String[] args) {  
        System.out.println("Hello");  
        System.out.println("World");  
    }  
}
```

Hello
World

---

19) println is \_\_\_\_\_ invoked (تستدعى) by the System.out.

- A. an object
- B. a variable

C. a method

- D. none of the above

---

20) System.out is a part of the Java language and it is

A )a class

B). an object

C)a method

D). a parameter

-----

21) Consider the following code and what is the correct variable values. ماهي قيم المتغيرات.

```
import java.util.Scanner ;
```

```
public class Maint
```

```
{public static void main(Stringi args) {
```



```
Scanner keyboard = new Scanner(System.in);
```

```
int num = keyboard.nextInt();
```

```
String line1 = keyboard.nextLine();
```

```
String line2 = keyboard.nextLine()
```

If we input the following lines:

10

Welcome to ICS 102 Class.

Hello World

الحل المطلوب ماهي القيم التي سيتم تخزينها بالمتغيرات

```
num = 10
```

```
line2 = ""
```

```
line3 = Welcome to ICS 102 Class.
```

---

22) Which one of the following declarations is NOT correct أي من

التعريفات التالية غير صحيح

A) double duty ;

B) int start = 1 , end =100 ;

C) boolean value = 12;

D) float loan = 84.6f ;

-----

23) Consider the following code

String course = "Java Programming";

course.charAt(3) ;

returns 'v' ;

المقصود هل ناتج العملية هو v

true

false

---

24) Consider the following code :

String name = "Ali";

name.equals("ali");

returns true

المقصود هل سيتم ارجاع true

true

false

-----

25) Consider the following code

String user = "First user";

user.toUpperCase();

returns "FIRST USER "

المقصود هل هذه هو الناتج

true

false

-----

26) The class is

A) return a value of a single type and/or perform an action

B) None of the above

C) the name for a type whose values are objects

D) entity that stores data and takes actions

---

27)What is the output

```
public class book{  
    public static void main(String[] args) {  
        int a = 10;  
        System.out.println(a++);  
        a++;  
    }  
}
```

10
----

---

28) What is the output

```
public class book{  
    public static void main(String[] args) {  
        int a = 10;  
        System.out.println(a);  
        System.out.println(a++);  
        System.out.println(a);  
    }  
}
```

10
----

10
----

11
----

---

28) What is the output

```
public class book{
```

```
public static void main(String[] args) {  
    int a = 10;  
    System.out.println(a);  
    System.out.println(++a);  
    System.out.println(a);  
}
```

10

11

11

---

29) String s= "I am a student";

What output of     System.out.println(s.charAt (7));

s

---

30) what the output :

String x= "Programming";

System.out.println( x.substring(3,7));

gram

31)

code	output
<pre> public class Magor{  public static void main(String[] args) { String str1 = "I Love";  String str2 = "Programming";  String str3 = "In Java";  String str4 = str1 + str2 + str3;  System.out.println (str1.length());  System.out.println(str1.toLowerCase());  System.out.println(str1.indexOf("v"));  System.out.println(str1.indexOf("z"));  System.out.println(str1.indexOf("Love"));  System.out.println (str3.substring(3));  System.out.println("//^A"+str1);  System.out.println(str1.toUpperCase());  System.out.println(str4);  System.out.println(str4.charAt(9)); </pre>	<pre> 6 i love 4 -1 2 Java //^AI Love I LOVE I LoveProgrammingIn Java g </pre>

32)

	output
<pre> String course = "ics-102";  course = course. toUpperCase(); System.out.println(course.charAt(2)); </pre>	<pre> S </pre>

---

33)

	Output
<pre>public class Exam{ public static void main(String[] args) { String name1 = "Ali"; String name2 = "ali"; if(name1.equalsIgnoreCase(name2)) System.out.println(name1 + " matches " + name2); else System.out.println(name1 + " does not match " + name2); } }</pre>	Ali matches ali

34)

	Output
<pre>public class Exam{ public static void main(String[] args) { String name1 = "Ali"; String name2 = "ali"; if(name1.equal(name2)) System.out.println(name1 + " matches " + name2); else System.out.println(name1 + " does not match " + name2); } }</pre>	Ali does not match ali

35)

	Output
<pre> public class Exam{ public static void main(String[] args) {     int grade = 73;         if (grade &gt;=90)             System.out.println("A");         if (grade &gt;=80)              System.out.println("B");         if (grade &gt;=70)              System.out.println("C");         if (grade &gt;=60)              System.out.println("D");         if (grade &lt;60)              System.out.println("F");} } </pre>	C D

36)

	Output
<pre> public class Exam{ public static void main(String[] args) {     int grade = 73;     if (grade &gt;=90)         System.out.println("A");     else if (grade &gt;=80)         System.out.println("B");     else if (grade &gt;=70)         System.out.println("C");     else if (grade &gt;=60)         System.out.println("D");     else if (grade &lt;60)         System.out.println("F"); } } </pre>	C

37)

	Output
<pre>public class Exam{ public static void main(String[] args) {      int color = 2;          switch(color)         {             case 1:                  System.out.println("Red");                 break;             case 2:                  System.out.println("Blue");                 break;             case 3:                  System.out.println("Black");                 break;             default:                  System.out.println("Error");}  }</pre>	Blue

---

38)



	Output
<pre>public class Exam{ public static void main(String[] args) {      int color = 2;      switch(color)     {     case 1:         System.out.println("Red");         break;     case 2:          System.out.println("Blue");      case 3:         System.out.println("Black");         break;         default:          System.out.println("Error");} }</pre>	<pre>Blue Black</pre>

39)rewrite using if

switch	if
<pre>int color = 2;  switch(color) { case 1:     System.out.println("Red");     break; case 2:     System.out.println("Blue");     break; case 3:     System.out.println("Black");     break; default:     System.out.println("Error"); }</pre>	<pre>int color = 2;  if(color == 1)     System.out.println("Red"); else if(color == 2)     System.out.println("Blue"); else if(color == 3)     System.out.println("Black"); else     System.out.println("Error");</pre>

40)which following not accept type with switch

A)int

b)short

c)double

d)char

---

41)

Code	<u>output</u>
<pre>int funny = 7;  int serious = 15;  funny = serious * 2;  switch (funny) {  case 0: System.out.println("That is funny."); break;</pre>	That is serious

<pre>case 30: System.out.println("That is serious."); break;  case 32: System.out.println("That is seriously funny.");  break; default: System.out.println(funny);</pre>	
--	--

42)

<u>Code</u>	<u>output</u>
<pre>int x=2, y=2,z=1, total;  total = x + --y + y%z ; System.out.println(total) ; System.out.println(x+y) ;</pre>	<pre>3 3</pre>

43) What is the value of var?

```
int a=12, b=5, c=8, d=10;
```

```
var = (a < b) ? c : d;
```

A)12

B) 5

C)8

D)10

---

44)What will be the value of ans after execution of following code?

```
int x = 90, y = 55, ans = 10;
```

```
if ( x == y)
```

```
    ans *= 2;
```

A)10

B)145

C)20

D)55

---

45) Branching mechanisms include:

- a. for
  - b. if-else**
  - c. while
  - d. None of the above
- 

46) .....A program that translates a high-level language program into an equivalent low-level language program:

- a. Compiler**
  - b. Class loader
  - c. Interpreter
  - d. JRE
- 

47)Which Scanner class method reads a single word?

- a. readInt()
  - b. nextInt()
  - c. next()**
  - d. nextLine()
- 

48)

47)Which Scanner class method reads a entire Line ?

- a. readInt()
  - b. nextInt()
  - c. next()
  - d. nextLine()**
- 

49) Which one of the following is illegal(not valid) variable name in java?

- a) \$name
- b) Employee Name** هنا يوجد مسافة وهي غير مسموحة الاسماء
- c) name3

d) Employee\_Name

---

50) A syntax error is:

- a. An error that is not detected until a program is run
  - b. A grammatical mistake in the code
  - c. A mistake in the undelaying algorithm for a program
  - d. None of the above
- 

51) Consider the following declaration:

boolean iKnow; The variable iKnow will be automatically initialized to which of the following?

0

1

true

false

---

52) Java is:

- a. Object oriented programming language
  - b. Event driven programming language
  - c. Procedural programming language
  - d. None of the above
- 

53) In Java, a block comment (multiline comment) is represented by:

a. \*/ /\*

b. //

c. /\* \*/

d. " "

---

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

A. short

B. long

C. float

D. String

---

55) What is the result of the following expression?

$$10 + 5 * 3 - 20$$

-5

**5**

25

-50

---

56) Which of the following is not an arithmetic operator in Java?

**A.  $\geq$**

B. -

C. \*

D. %

---

57) The Boolean expression  $((6 \geq 6) \&\& (1 > 0))$  will result to\_\_\_\_\_.

**A. True**

B. False

C. Null

D. None of the above

---

58)Semantics is:

**A.The meaning of things written while following the syntax rules**

B.The grammar rules of a language

C>The logical error made by the user

D.All of the above

-----

59)Which operator is used to concatenate two strings:

a. \*

**b. +**

c. ,

60) Which of the following Java statements is illegal: غير مسموح

- a. int a= 5.7;
  - b. double b= 3;
  - c. int a = (int) 3.4;
  - d. doubleans = n/ (double) m;
- 

61) Which of the following is not a valid Java identifier اي من التالي اسم غير صحيح?

- a. answer\_7
  - b. highest\$
  - c. Myname
  - d. 2ndlevel
- 

62) The Boolean expression `!(6>=6 || 1>0)` will result to:

- a. True
  - b. False
  - c. Null
  - d. None of the above
- 

63) There are two type of Java Programs:

- a. Applications and Applets
  - b. Applets and comilers
  - c. Machine code and Applications
  - d. Main method and class
- 

64) The escape sequence that represents the tab is:

- a. \n
  - b. \r
  - c. \t
  - d. \\
- 

65) The escape sequence that represents the new line is:

- a. \n
- b. \r
- c. \t

d. \\

---

66) This expression `sum += 3` is equivalent to:

a. `sum = sum - 3`

b. `sum = 3`

c. `sum = sum + 3`

---

67) find error and correct

Code	Error	correct
<code>imprt java.util.Scanner;</code>	Imprt	import
<code>string s1="ICS102 is interesting course"; String c= s1.indexOf("ICS102");</code>	string	String
<code>System.in.println("ICS102 Exam time");</code>	in	out
<code>Char Exam_grade='B';</code>	Char	char
<code>Total=+100;</code>	=+	+=

68) find output

```
int result =100 ; int max=60 ; int min = 10;
    if((result <max) && (result > min))
        System.out.println(result + " is in the average
range");
    else if((result > max) && (result > min))
        System.out.println(result + " is more than the
maximum");
    else if((result < max) && (result <min))
        System.out.println(result + " is less than the
minimum");
```

100 is more than the maximum
------------------------------



69)correct صحیح

code	correct
double a; b;	double a,b;
Int a ;	int a ;
String r = 'welcome back'	String r = "welcome back"
float 8y;	float y8 ;
Char letter = 'ABC';	char letter = 'A';

70) Which of the following class is used to get the input from keyboard?

- 1)String
- 2)Scanner
- 3)Input
- 5)Scam

---

71) What is the output of following code?

```
String palindrome = "Dot sawl was Tod";  
int len = palindrome.length();  
System.out.println( "String Length is : "+ len );
```

String Length is : 16

---

72) Every Java program starts execution from Every

- (a) class
- (b) object
- (c) package

(d) main

---

73) Java is a \_\_\_\_\_ level language?

(a) low

(b) machine

(c) high

(d) All of these

---

74) NumberFormat class is found in

(a) java.util

**b) java.text**

(C) java.system

(d) none above

---

75) Scanner class is found in

**(a) java.util**

b) java.text

(C) java.system

(d) none above

---

76) \_\_\_\_\_ executes by Java Virtual Machine?

(a) byte code

(b) class code

(c) default code

(d) object code

---

77) In Java, the equal sign is used as the

a. Increment

b. decrement

c. operator.

d. assignment

78) Which operator returns the remainder of integer division?

- a. +
  - b. /
  - c. %**
- 

79) The value of the expression (int) 27.9 evaluates to

- a)27**
  - b)27.9
  - c)27.0
- 

80) One of the methods used for sending output to the screen is called

- a. **print**
  - b. printIt
  - C. write
- 

81) Strings are enclosed between

- a)' '
  - b)"""**
  - c)-
- 

82) The Scanner method used to read a string is a,

- a. nextInt()
  - b. **next()**
  - c. nextDouble()
- 

83) In Java, the == sign is used as the

- a. Increment
  - b. **Equality**
  - c. operator.
  - d. Assignment
-

84) What is the output of following segments of codes?

<pre>int digit = 6; String word = "Number"; System.out.println(word+digit);</pre>	Number6
<pre>String X = "123"; System.out.print(X.length()+X.substring(1,2)+ X.charAt(0));</pre>	321
<pre>String title = "Information of Computer Science"; String ans = "The Answer:" + title.charAt(0)+ title.charAt(15) +title.charAt(24); System.out.println(ans);</pre>	The Answer:ICS

85) A program written in high level language is called source code.

**True**                      false

86) the translated low level program is called Object code.

**True**                      false

---

87) A program that connects the byte-code of the classes needed to run a Java program

1) **Class Loader**

2)compilar

3)connect

---

88)which following not valid variable name

a)week

**b)void**

c)week1

d)week\_2

89)Write program ask user to input 2 number then print addition, subtraction , multiplication اكتب برنامج يدخل المستخدم عددين ثم طباعة المجموع والطرح والضرب

```
import java.util.Scanner;

public class Exam {

    public static void main(String[] args)
    {
        Scanner kb = new Scanner(System.in);
        System.out.println("Input first number: ");
        double n1 = kb.nextDouble();
        System.out.println("Input second number: ");
        double n2 = kb.nextDouble();

        System.out.println("Addition = " + (n1+n2));
        System.out.println("Subtraction = " + (n1-n2));
        System.out.println("multiplication = " + (n1*n2));

    }

}
```

---

90)Write program to input number then print if negative , positive or zero

```
import java.util.Scanner;

public class Test {

    public static void main(String[] args)
    {
        Scanner kb = new Scanner(System.in);
        System.out.println("Input number: ");
        int n = kb.nextInt();

        if(n>0)
            System.out.println("positive");
        else if(n<0)
            System.out.println("negative");
        else
            System.out.println("Zero");

    }

}
```

```
    }  
}
```

91)Write program to input radius of circle and print area

```
import java.util.Scanner;  
  
public class Test {  
    public static void main(String[] args)  
    {  
        Scanner kb = new Scanner(System.in);  
        System.out.println("Input radius : ");  
  
        double r = kb.nextDouble();  
  
        double area = 3.14 * (r*r);  
  
        System.out.println("area = " + area);  
    }  
}
```