Certificacion Java Capitulo Cuatro

Review Questions

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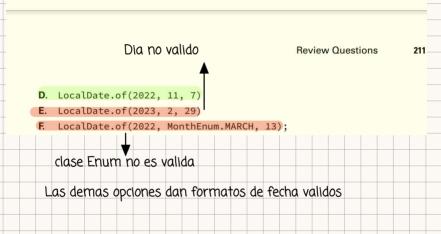
2025

```
What is output by the following code? (Choose all that apply.)
 1.
    public class Fish {
 1:
       public static void main(String[] args) {
 2:
 3:
           int numFish = 4;
           String fishType = "tuna";
 4:
           String anotherFish = numFish + 1:
 5:
          System.out.println(anotherFish + " " + fishType);
 6:
          System.out.println(numFish + " " + 1);
 7:
 8: } }
                          no se puede asignar un int a un string
     A.
         4 1
                          si quisieramos hacerlo debería ser:
     B.
         5
                          String hola =""+2
     C. 5 tuna
     D. 5tuna
     E.
         51tuna
         The code does not compile.
     E
   Which of these array declarations are not legal? (Choose all that apply.)
2.
       int[][] scores = new int[5][];
    A.
       Object[][][] cubbies = new Object[3][0][5];
    B.
       String beans[] = new beans[6];
   C.
       java.util.Date[] dates[] = new java.util.Date[2][];
    D.
       int[][] types = new int[];
    E.
       int[][] java = new int[][];
   C. usa beans como tipo de dato
   E y F. No definen tamaño para el array
```

3.		en v	ve fal	ch 13 l back de thi	for	day	light	savi	ing ti	me. V	Vhick	of	the	follo	win			,	
var	zone	= .	Zone	Id.of	("U	S/Ea	aste	rn");										
var	date	= .									_;								
var	time	=	Loca	lTime	of.	(2,	15)	;											
var	z =	Zon	edDa	teTin	ne.o	f(da	ate,	ti	me,	zone);								

C. LocalDate.of(2022, 11, 6)

A. LocalDate.of(2022, 3, 13) No hay dia 40 **B**. LocalDate.of(2022, 3, 40) -



```
Which of the following are output by this code? (Choose all that apply.)
 3: var s = "Hello";
 4: var t = new String(s);
 5: if ("Hello".equals(s)) System.out.println("one"); one
 6: if (t == s) System.out.println("two"); X
 7: if (t.intern() == s) System.out.println("three"); three
   if ("Hello" == s) System.out.println("four"); Four
 9: if ("Hello".intern() == t) System.out.println("five"); X
     A. one Linea 5 compara si son iquales
                Revisa si existe una cadena en el pool con el valor de t, es
     B.
     c. three cierto y es s
     D. four
                          → Hello existe en el pool, y es
     E. five
                                por la declaración de s
        The code does not compile.
     G. None of the above
    What is the result of the following code?
7: var sb = new StringBuilder();
8: sb.append("aaa").insert(1, "bb").insert(4, "ccc");<sup>3</sup>
9: System.out.println(sb);
         abbaaccc
    A.
                            1. aaa
         abbaccca
    B.
                            2. abbaa
    C. bbaaaccc
                            3. abbaccca
     D. bbaaccca
        An empty line
     E.
     F
         The code does not compile.
1, Añade al final aaa
2. Inserta en el Indice 1 bb
3. Inserta en el Indice 4 ccc
```

6.	Цо	ar m	201/	of the	ece lir	ies c	ont	ain	a co	omr	iler	err	or?	(Cl	1009	se a	ll th	at a	app	ly.)				
0.	6. How many of these lines contain a compiler error? (Choose all that apply.) 23: double one = Math.pow(1, 2); Retorna un double																							
23:	do	uble	one	9 =	Math	. pov	N(1,	2);				•					-					Ī	
24:	in	t tw	0 =	Mat	h.ro	und	(1.0));				ъ.	<u></u>	vn.	2 111	. .		hla					İ	
25:	fl	oat	thre	ee =	Matl	n.ra	ando	om ();		-	- 17	210	77 7 10	J W	110	iou	DIE					t	
26:	va	r do	uble	es =	new	do	uble	9[]	{0	ne,	tw	10,	th	ree	};								t	
	Α.	0																					H	
																							+	_
	B.	1																					-	
	24,2	25 d	iene	ran	err	ore:	s de	2 (om	olia	acio	n	al d	asi	ana	ır t	ipo	s r	י סר	vali	ido:	S		
)							1		•			9		.1 -							
212		C	hapt	ter 4	- Co	re A	APIs																	
	C.	2																						
	D.																							
	E.	4														ı								
	_																							
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	_																							
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- Which of these statements is true of the two values? (Choose all that apply.)
 - 2022-08-28T05:00 GMT-04:00 2022-08-28T09:00 GMT-06:00
 - A. The first date/time is earlier.
 - The second date/time is earlier.
 - Both date/times are the same. C.
 - D. The date/times are two hours apart.
 - The date/times are six hours apart. E.
 - The date/times are 10 hours apart. E
- 8. Which of the following return 5 when run independently? (Choose all that apply.)

var string = "12345";

B

var builder = new StringBuilder("12345");

- builder.charAt(4)
- builder.replace(2, 4, "6").charAt(3) B. builder.replace(2, 5, "6").charAt(2) C.
- string.charAt(5) fuera de rango D.
- E. string. length faltan Parentesis
- string.replace("123", "1").charAt(2) E.
- None of the above
- 9. Which of the following are true about arrays? (Choose all that apply.)
 - The first element is index 0. Arrays Inician en O
 - The first element is index 1 C. Arrays are fixed size. su tamaño es fijo, mas no sus valores
 - D. Arrays are immutable.
 - **E.** Calling equals () on two different arrays containing the same primitive values always returns true.
 - Calling equals () on two different arrays containing the same primitive values always returns false.
 - **G.** Calling equals () on two different arrays containing the same primitive values can return true or false.

al llamar equalsO compara si son el mismo objeto, no sus valores entonces siempre sera false el resultado

```
10. How many of these lines contain a compiler error? (Choose all that apply.)
23: int one = Math.min(5, 3);
24: long two = Math.round(5.5);
25: double three = Math.floor(6.6):
26: var doubles = new double[] {one, two, three};
   A. 0
             No hay errores en los codigos
   B. 1
   C. 2
   D. 3
   F. 4
11. What is the output of the following code?
var date = LocalDate.of(2022, 4, 3);
date.plusDays(2);
date.plusHours(3);
System.out.println(date.getYear() + " " + date.getMonth()
    + " " + date.getDayOfMonth());
                          Local Date no tiene horas
    A. 2022 MARCH 4
                            por lo que no compila
        2022 MARCH 6
    B.
    C. 2022 APRIL 3
    D. 2022 APRIL 5
    E. The code does not compile.
```

A runtime exception is thrown.

F.

```
12. What is output by the following code? (Choose all that apply.)
var numbers = "012345678".indent(1);
numbers = numbers.stripLeading();
System.out.println(numbers.substring(1, 3)); 12
System.out.println(numbers.substring(7, 7)); Naa
System.out.print(numbers.substring(7)); 78
                 El rango final de substring es exclusivo
   A.
        12
    B.
        123
                 si solo se indica inicio devuelve de ese punto hasta el fin
                 de la cadena
   C.
        7
   D.
       78
       A blank line
   E.
       The code does not compile.
   G. An exception is thrown.
13. What is the result of the following code?
public class Lion {
   public void roar(String roar1, StringBuilder roar2) {
      roar1.concat("!!!");
      roar2.append("!!!");
   public static void main(String[] args) {
    S var roar1 = "roar";
  new Lion().roar(roar1, roar2);
      System.out.println(roar1 + " " + roar2);
} }
    A.
       roar roar
                      al llamar. roar se intenta modificar roar1 y roar 2
    B. roar roar!!!
                      pero el primero es inmutable por lo que solo se
      roar!!! roar modifica roar2
    C.
    D.
       roar!!! roar!!!
      An exception is thrown.
    E.
    F.
       The code does not compile.
```

```
14. Given the following, which can correctly fill in the blank? (Choose all that apply.)
var date = LocalDate.now();
var time = LocalTime.now();
var dateTime = LocalDateTime.now();
var zoneId = ZoneId.systemDefault();
var zonedDateTime = ZonedDateTime.of(dateTime, zoneId);
Instant instant =
       Instant.now()
   A.
   B.
      new Instant()
   C. date.toInstant()
   D. dateTime.toInstant()
   F
      time.toInstant()
   E
       zonedDateTime.toInstant()
15. What is the output of the following? (Choose all that apply.)
var arr = new String[] { "PIG", "pig", "123"};
Arrays.sort(arr); ordena el array -- numeros Mayusculas Minusculas
System.out.println(Arrays.toString(arr)); 123
System.out.println(Arrays.binarySearch(arr, "Pippa"));
 binary search busca en que indice deberia estar la palabra y lo devuelve en
 negativo, en este caso debería estar el el lugar 3, sería el Indice 2 ya que los
 array indican de 0
                                                        Review Questions
     A. [pig, PIG, 123]
     B. [PIG, pig, 123]
     C. [123, PIG, pig]
     D. [123, pig, PIG]
     E. -3
     F.
         -2
        The results of binarySearch() are undefined in this example.
```

```
16. What is included in the output of the following code? (Choose all that apply.)
var base = "ewe\nsheep\\t"; \n y \\ cada uno cuenta como uno
int length = base.length(); 11 caracteres
int indent = base.indent(2).length(); agrega 2 espacios en cada linea y una\n
int translate = base.translateEscapes().length(); elimina \ dejando 10
var formatted = "%s %s %s".formatted(length, indent, translate);
System.out.format(formatted):
   A. 10
    B. 11
    C. 12
    D. 13
    E. 14
       15
    G. 16
17. Which of these statements are true? (Choose all that apply.)
var letters = new StringBuilder("abcdefg");
    A. letters.substring(1, 2) returns a single-character String. b
        letters.substring(2, 2) returns a single-character String.
    B.
                                                                     īuera de
        letters.substring(6, 5) returns a single-character String.
    C.
        letters.substring(6, 6) returns a single-character String.
    D.
       letters.substring(1, 2) throws an exception. un caracter
    E.
        letters.substring(2, 2) throws an exception.
    F
    G. letters.substring(6, 5) throws an exception. Fuera de rango
    H. letters.substring(6, 6) throws an exception.
Repetir el Indice en un substrina es valido pero regresa una cadena vacia
 El segundo Indice es exclusivo en substrina
```

```
19. Which of the following fill in the blank to print a positive integer? (Choose all that app
String[] s1 = { "Camel", "Peacock", "Llama"};
String[] s2 = { "Camel", "Llama", "Peacock"};
String[] s3 = { "Camel"}:
String[] s4 = { "Camel", null};
System.out.println(Arrays._
    A. compare(s1, s2) +++
    B. mismatch(s1, s2)
    C. compare(s3, s4)
    D. mismatch (s3, s4)
    E.
        compare(s4, s4)
        mismatch (s4, s4)
    F.
 compare regresa un int positivos los elementos son diferentes y el primero es
 mas grande
mismatch regresa un int positivo si los arreglos son diferentes en la posicion 10
mayor
  20. Note that March 13, 2022 is the weekend that clocks spring ahead for daylight saving time.
      What is the output of the following? (Choose all that apply.)
  var date = LocalDate.of(2022, Month.MARCH, 13);
  var time = LocalTime.of(1, 30);
  var zone = ZoneId.of("US/Eastern");
  var dateTime1 = ZonedDateTime.of(date, time, zone);2022, March, 13 1,30 US
  var dateTime2 = dateTime1.plus(1, ChronoUnit.HOURS); mismos datos mas una hora
                                                            mas una por spring
  long diff = ChronoUnit.HOURS.between(dateTime1, dateTime2); 1
  int hour = dateTime2.getHour(); 3.30=3
  boolean offset = dateTime1.getOffset()
                                        false
     == dateTime2.getOffset():
  System.out.println("diff = " + diff); 1
  System.out.println("hour = " + hour); 3
  System.out.println("offset = " + offset); false
      A. diff = 1
      B. diff = 2
      C. hour = 2
      \mathbf{D}, hour = 3
```

E. offset = true

F. The code does not compile.G. A runtime exception is thrown.

```
21. Which of the following can fill in the blank to print avaJ? (Choose all that apply.)
3: var puzzle = new StringBuilder("Java");
4: puzzle.
5: System.out.println(puzzle);
   A. reverse()
   B. append("vaJ$").substring(0, 4)
   C. append("vaJ$").delete(0, 3).deleteCharAt(puzzle.length() - 1)
   D. append("vaJ$").delete(0, 3).deleteCharAt(puzzle.length())
                                                   Fuera de rango
   E. None of the above
  reverseO es la forma mas sencilla de voltear una cadena
  lo que hace C es agregar la cadena volteada, borrar la original y eliminar el $
   D. Error de out of Index
   B. Solo agrega a la cadena
```

22.	Wha	at is th	ie ou	tput	of t	he f	ollo	win	g co	ode?	?											
		e = L			te.o	f(2	022	, M	ont	h.A	IPR	IL,	36));	Es	inr	ทบ	Ita	ble			
date	e.pl	usDay	1s(2));	esto	s n	neta	odos	no	se	asi	ian	an i	par	a a	uar	da	r c	an	nbid	วร	
date	e.pl	usYea	ars(3	3);								•			_							
		out.p" + 0								+ '		+	dai	Le.	ge	MOI	ici					
18		Cha	pter	4 •	Coi	re A	.PIs	1000														
1	۹. ۱	2022	APR	IL	30	se	im	ıprir	ne I	la f	èct	na i	nici	al								
E	3.	2022	MAY	2																		
		2025																				

2025 APRIL 30

The code does not compile.

A runtime exception is thrown.

2025 MAY 2

D. E.

F.

G.