



## COMPUTECH'S ICSE CLASS 9 FULL SYLLYBUS MOCK TEST

This question paper is divided into two sections.

You are to answer all questions in **Section A and** any two **questions** from **Section B**. All working, including rough work, should be done on the same sheet as the rest of the answer.

## SECTION A (40 marks) Attempt ALL questions.

1.

A. What is the type and value of the following expression? (Notice the integer division) –

```
4 + 1/2 + 2*-3 + 5.0
```

- (a) int -5
- (b) double -4.5
- (c) int -4
- (d) double -5.0

```
B. How many times 'Hello' is printed?
Public static void main(String args[])
{
    for(i = 0;i<5;i++)
    {
        System.out.println("hello");
        break;
    }
}</pre>
```

Options

- (a) 5
- (b) 4
- (c) 1
- (d) 0

C. Which of the following statements is true?

- a) Character.isLowerCase() and Character.toLowerCase() are same.
- b) Character.isLetter() and Character.isAlphabet() are same.
- c) parse and valueOf functions are same.
- d) Character.isDigit() and Character.isNumber() are same.

```
D. State the value of n and ch.
char c='A';
int n=c+1;
char ch=(char)n;
a) n=66 ch=b
b) n=92 ch=a
c) n=97 c=b
d) n=66 ch=B
E. Which of these is a process of converting a simple data type into a class?
(a) type casting
(6) type conversion
(c) type wrapping
(d) None of the mentioned
F.Analyze the given code and determine how many times does the inner loop
execute?
for (int i=3; i<=4; i++)
for (int j=2; j < i; j++)
System.out.println(" ");
}
a) 2 times
b) 3 times
c) infinite
d) 4 times
G. Which of the following classes is not included in java.lang?
a)Class
b) Integer
c)Byte
(d) () Array
```

```
H. What will be the output of the following program?
class Output{
public static void main (String args
Integer i = new Integer(150);
double x = i.doubleValue);
System.out.print(x);
Integer is a ...
(a) adapter class
(6) inner class
(c) not a class
(d)wrapper class
I. What will be the output of the following
program?
public class Test {
public static void main(String args[ )
int n = 111;
char ch = Character.toUpperCase(char)n);
System.out.println(ch + " My God!");
}
(a) Runtime error (b) Mt God! 111
(c) 111 My God! (d) O My God!
J. What will be the output of the following program?
public class NestedFor
       static void main()
       for (int i = 0; i < 10; i *= 3)
               System.out.print(i + ":");
               for (i = 6; i < 14; i += 2)
                      System.out.print(i + ":");
```

```
}
a. 0:6:8:10:12:
b. 6:8:10:12:
c. 6:9:12:
d. Some other output or Compilation Error
Question 2.
(a) Define Encapsulation.
                                                                                            [2]
(b) What are keywords? Give an example.
                                                                                            [2]
(c)Name any two library packages.
                                                                                            [2]
(d)If int x [] = \{4, 3, 7, 8, 9, 10\}; what are the values of p and q?
                                                                                            [2]
(i) p = x.length
(ii) q = x[2] + x[5] * x[1]
(e) Give the output of the following program segment and also mention how many times
the loop is executed:
                                                                                            [2]
int i;
for (i = 5; i > 10; i + +)
System.out.println(i);
System.out.println(i*4);
```

## **SECTION B (60 Marks)**

Attempt any four questions from this Section.

The answers in this Section should consist of the **Programs in either Blue J environment** or any program

## environment with Java as the base.

Each program should be written using **Variable descriptions/Mnemonic Codes** so that the logic of the program is

clearly depicted.

Flow-Charts and Algorithms are not required.

Using the switch statement, write a menu driven program to:

(i) Generate and display the first 10 terms of the Fibonacci series 0, 1, 1, 2, 3, 5.....

The first two Fibonacci numbers are 0 and 1, and each subsequent number is the sum of the previous two.

(ii) Find the sum of the digits of an integer that is input.

Sample Input: 15390

Sample Output: Sum of the digits =18

for an incorrect choice, an appropriate error message should be displayed.

Using the switch statement, write a menu driven program for the following:

(i) To print the Floyd's triangle [Given below]

1	
2 3	
4 5 6	
7 8 9 10	
11 12 13 14 15	
(ii) To display the following pattern:	
I	
IC	
ICS	
ICSE	
For an incorrect option, an appropriate error message should be displayed	
Question 6.	[15]
Write a program to input integer elements into an array of size 20 and perform the	
following operations:	
(i) Display largest number from the array.	
(ii) Display smallest number from the array.	
(iii) Display sum of all the elements of the array.	
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