JAVA PROGRAMMING

QUESTION PAPER

Dated:21.11.2023

Section A	F	ใน	ıll	N	1	a	r	KS	:	5()

- A) Multiple Choice Questions (15 marks)
- 1. What does OOP stand for?
 - a) Object-Oriented Programming
 - b) Object-Oriented Protocol
 - c) Operator Oriented Programming
 - d) Operational Object Programming
- 2. Which keyword is used for the inheritance of classes in Java?
 - a) extends
 - b) implements
 - c) inherits
 - d) derives
- 3. In Java, what is the default value of the data type 'int'?
 - a) 0.0
 - b) 0
 - c) null
 - d) "null"
- 4. Which of the following is a logical operator in Java?
 - a) ++
 - b) ||

c) ::
d) **
5. What will be the output of the following code snippet?
int $x = 5$;
int $y = 2$;
System.out.println(x / y);
a) 2.5
b) 2
c) 2.0
d) 2.5 (integer division)
6. If $X=12,Y=9*3$; What will it print if we use Int data type as $(X*Y)$
a) 223
b) 324
c) 12*9*3
d) 1293
7. The 'else' statement is associated with which control structure?
a) for loop
b) switch statement
c) if statement
d) while loop
8. What is the purpose of the 'break' statement in Java?
a) Exit the program

b) Exit the loop or switch statement

- c) Skip the current iteration of a loop
- d) Terminate a method
- 9. Which loop is suitable when the number of iterations is known in advance?
 - a) while loop
 - b) do-while loop
 - c) for loop
 - d) switch loop
- 10. What is the output of the following code snippet?

```
int i = 1;
while (i < 5) {
    System.out.print(i + " ");
    i += 2;
}</pre>
```

- a) 1 2 3 4
- b) 13
- c) 24
- d) 1 2 3 4 5

Section B

B) Fill in the Blanks (5 marks)

- 11. The 'new' keyword is used to ______ objects in Java.
- 12. In Java, the data type used to store single characters is .
- 13. The ternary operator in Java is also known as the ______operator.
- 14. The 'switch' statement in Java can be used with data types like
- 15. A variable declared inside a method is called a variable.

Section C

C) One-Sentence Answer Questions (10 marks)

- 16. Explain the concept of polymorphism in object-oriented programming.
- 17. Differentiate between '==' and '.equals()' methods in Java.
- 18. How do you declare a constant variable in Java, and why might you use it?
- 19. What is the purpose of the OOP? Write its full form.
- 20. Briefly describe the difference between 'for' and 'while' loops in Java.

Section D

D) Programming Questions (20 marks)

- 21. Write a Java program to find the factorial of a given number.
- 22. Write a java program to find a spy number?

Logic - A positive integer is called a spy number if the sum of the digits is equal to the product of the digits.

Example- 1124

Sum = 1+1+2+4=8

Product= 1*1*2*4=8