

GREENLAWNS SCHOOL, WORLI
TERMINAL EXAMINATION
COMPUTER APPLICATION

STD : IX

MARKS : 100

Date :-9/9/25

TIME : 2 Hrs

Answer to this paper must be written on the paper provided separately. You will not be allowed to write during the first 15 minutes. This time is to be spent in reading the question paper. The time given at the head of the paper is the time allowed for writing the answers.

*This paper is divided in to two Sections. Attempt **all questions in Section A** and **any four questions from Section B**. The intended marks for the questions or parts thereof are given in brackets([]).*

Section A (40 marks)
(Attempt all questions)

Question 1

Choose the correct answer and write the correct option.

[20]

- 1) Which of the following is not a token ?
 - a) keywords
 - b) identifiers
 - c) statement
 - d) operators

- 2) By default, the if-part and else-part of an if statement can contain these many statements in it.
 - a) 2
 - b) 1
 - c) 5
 - d) as many

- 3) A class encapsulates
 - a) data
 - b) methods
 - c) functionality
 - d) all the above

- 4) Which of the following is not a token?
 - a) Keyword
 - b) Identifiers
 - c) Operators

- d) Statement
- 5) The process of combining data and functions that enables them to be together as a single entity is called
- a) inheritance
 - b) encapsulation
 - c) classification
 - d) attributes
- 6) Which among the following is not a relational operator?
- a) &&
 - b) <
 - c) ==
 - d) !=
- 7) byte type data type in size is _____ byte
- a) 1 byte
 - b) 2 byte
 - c) 4 byte
 - d) None of these
- 8) Give the output of the following Math functions:
- `Math.ceil(4.2)`
- a) 4
 - b) 3
 - c) 4.5
 - d) None
- 9) Give the output of the following Math functions:
- `Math.max(Math.ceil(4.2),7)`
- a) 4
 - b) 5
 - c) 75
 - d) None
- 10) Give the output of the following Math functions:
- `Math.sqrt(-16)`
- a) 4
 - b) 2
 - c) nan

d) none

11) Give the output of the following Math functions:

`Math.ceil(3.4) + Math.pow(2,3)`

- a) 4+6
- b) 4+8
- c) 3+8
- d) None

12) What is the range of data type byte.

- a) -128 to 127
- b) -127 to 128
- c) -127 to 127
- d) none

13) What is the size of data type double

- a) 4 byte7
- b) 8 bytes
- c) 2 bytes
- d) None

14) Give the output of the following Math functions:

`Math.max(2,5,7)`

- e) 5
- f) 7
- g) invalid
- h) None

15) An operator taking only single operand for its operation is called

- a) A unary operator
- b) A binary operator
- c) A ternary operator
- d) None of these

16) Which of the given number is binary operand

- a) -a
- b) A+b
- c) A+b+c
- d) None of these

17) Number of relational operator are

- a) 5

- b) 4
- c) 6
- d) None of these

18) Number of relational operator are

- a) 5
- b) 4
- c) 6
- d) None of these

19) Java uses character set.

- a) ASCII Only
- b) Extended ASCII Only
- c) Unicode
- d) None of these

20) The smallest individual component in a program is called

- a) Token
- b) Identifier
- c) Keyword
- d) Method

Question 2

State the difference of the following:

[10]

- a) = and ==.
- b) long and int
- c) / and %
- d) Compiler and interpreter
- e) Float and double

Question 3

[10]

- a) Explain class.
- b) Explain polymorphism
- c) Give the syntax of if else if statement
- d) Give the syntax of for loop,
- e) Write an equivalent Java expression for the following expressions:

$$x = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$

Section– B (60 marks)

(Attempt any four questions from this section. The answers in this section should consist of the program in Blue J environment with java.)

Question 4

Write a program to input number of call made then calculate the bill:

Units consumed	Rate
First 100 calls	Rs 0.60 per call
Next 100 calls	Rs 0.80 per call
Next 100 calls	Rs 1.20 per call
Above 300	Rs 1.5 per call

Fixed monthly rental applicable to all consumers: ₹125

Question 5

Input a number and check whether it is a Armstrong number or not.

Input : 153

Output :it is a Armstrong number

Example 153

$$3*3*3 = 27$$

$$5*5*5 = 125$$

$$1*1*1 = 1$$

$$27+125+1= 153 \text{ which is same as number}$$

Question 6

Input a number and check whether it is a palindrome or not.

Input : 124

Output :421 not a palindrome

Input : 121

Output :121 it is a palindrome

Question 7

Write a program in Java input principle ,rate time , calculate the Simple Interest and the Amount, n

$$Si=(p*r*t)/100$$

Question 8

Print the following pattern

12345

1234

123

12

1

Question 9

Generate the following series :

a) 1,3,5,7,9..... n numbers

b) 1,8,,27,64,125 ...n numbers
