

# Greenlawns high school

## Computer Application

Std IX

Time: 2 hours

Date : 6 /3/26

Max Marks : 100

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### COMPUTER APPLICATIONS

(Theory)

(Two Hours)

*Answers 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 this Paper is the time allowed for writing the answers.*

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*This Paper is divided into two Sections.*

*Attempt all questions from Section A and any four questions from Section B.*

*The intended marks for questions or parts of questions are given in brackets[]*

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### SECTION A (40 Marks)

Answer all questions from this Section

Question 1.

[20]

1) Consider the following code snippet:

```
float x=8.25f;
```

```
int y;
```

```
y=(int)x;
```

What are the values of x and y?

a) x = 8.25, y = 8

b) x = 8.0, y = 8.0

c) x = 8, y = 8.25

d) x = 8, y = 8

2) Give the output of `Math.ceil(-0.6)`;

a) -1.6

b) -1.5

c) -1.0

d) -0.0

3) Which operator cannot be used with if-else statement?

a) `<=`

b) `||`

c) `&&`

d) `?:`

- 4) Which of the following is/are principle(s) of Object Oriented Programming?
- a) Encapsulation
  - b) Abstraction
  - c) Inheritance
  - d) All of these
- 5) If  $a = 8$  and  $b = 4$ , the value of  $a \% b$  is
- a) 2
  - b) 0
  - c) 4
  - d) 8
- 6) What will be the output of `Math.floor(-20.10)`?
- a) -20.0
  - b) -21.0
  - c) 20
  - d) 21
- 7) What will be the output of `Math.sqrt(-25)`;
- a) -20.0
  - b) -21.0
  - c) 20
  - d) Nan
- 8) ..... refers to the act of representing essential features without including the background details.
- a) Abstraction
  - b) Inheritance
  - c) Encapsulation
  - d) Polymorphism
- 9) Java uses ..... for execution.
- a) Compiler and interpreter
  - b) Interpreter only
  - c) Compiler only
  - d) None of these
- 10) Java is .....
- a) Robust
  - b) Object oriented
  - c) Secure
  - d) All of these

11) An object has .....

- a) Attributes
- b) State
- c) Behaviour
- d) All of these

12) ..... is a template to create similar objects that share common characteristics and behaviour.

- a) A class
- b) A procedure
- c) An attribute
- d) A function

13) Which of the following is not a token?

- a) Keyword
- b) Identifiers
- c) Procedure
- d) Operators

14) Which of the following is a keyword?

- a) character
- b) break
- c) object
- d) attribute

15) Which of the following is the size of a boolean data type in Java?

- a) 1 bit
- b) 16 bits
- c) 8 bits
- d) Boolean data type doesn't take any space in memory.

16) 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

17) The statement  $i = i + 1$  is equivalent to .....

- a)  $i++$
- b)  $i += 1$
- c)  $++i$
- d) All of these

18) The statement  $(1==1) ? 1 : 0$  evaluates to .....

- a) 0
- b) 1
- c) false
- d) true

19) The statement `System.out.println("six " + 3 + 3);` gives the output .....

- a) six 33
- b) six 6
- c) 33 six
- d) 6 six

20) Give the output of `Math.sqrt(x);` when  $x = 9.0$

- a) 3
- b) 3.0
- c) 3.00
- d) All of these

Question 2.

- a) Write the syntax of switch.
- b) Difference between `=` and `==`;
- c) Name the relational operator.
- d) Write the syntax of for loop.
- e) Difference between `%` and `/`.
- f) Difference between float and double.
- g) Write in java form.  
 $\pi^2$
- h) `int a=5,b=6;`  
`int c =++a + b++ + a--;`
- i) Print the smallest of -56 and -57.4.
- j) `Math.cbrt(-125)` what will be the output?

[20]

### Section B

(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 description mnemonic codes so that the logic of the program is clearly depicted. Flowcharts and algorithms are not required.

Question 3.

Write a program to input number of days and compute the fine according to the given conditions and display the fine to be paid.

[15]

Days	Fine
First seven days	25 paise per day
Eight to fifteen days	40 paise per day
Sixteen to thirty days	60 paise per day

Question 4.

Write a program to input three angle and display whether it is equilateral triangle, isosceles or scalene triangle. [15]

Question 5.

Input days 1 to 7 value and display week of the days.(using switch case) [15]

Question 6.

Generate the following series ( write two separate program) [15]

- a) 10,9,8,.....1
- b) 2,5,10,17 till ..... n number

Question 7.

Input temperature in T variable and conversion type in char variable , if it is 'f' or 'F' convert the temperature in Fahrenheit or if it is 'c' or 'C'. Convert the temperature in Celsius.

$C=(t-32)/1.8$ , and  $F=(t*9/5) +32$  [15]

Question 8. Write a program in Java to input salary of a employee and calculate the gross salary & net salary of an employee when [15]

When DA= 40% of Salary; HRA= 15% of Salary; PF= 10% of the Salary.

Gross Salary = (Salary +DA+HRA) Net Salary = Gross Salary -PF

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