

GreenLawns High School

Warden Road

TERM I EXAMINATION 2025– 26

Std: 9

Date: 23/09/25

Number of printed pages : 3

Subject : Computer Applications

Max. Marks: 100

Time : 2 Hours

SECTION A (40 Marks)

Question 1

[20]

Select proper option and write correct answer

- 1) The code obtained after interpretation is called
 - a) Source code b) object code c) java byte code d) intermediate code
- 2) State the size of boolean data type in bytes
 - a) 1 b) 6 c) 8 d) 2
- 3) If $a=5$ then solve $a+= - - a + a$
 - a) 15 b) 13 c) 8 d) 14
- 4) Which of the following is not a literal
 - a) 2.3 b) 'a' c) 34 d) class
- 5) _____ is not principle of java.
 - a) Inheritance b) abstraction c) open product d) polymorphism
- 6) Which of the following is not a valid token
 - a) literal b) variable c) operator d) object
- 7) Identify valid java statement
 - a) String s="34.56" ; b) Double a;b;c ; c) Boolean b= 0 ; d) char b=9 ;
- 8) double x=(double)5/2; what value will be stored in x ?
 - a) 2.0 b) 2.5 c) 3.0 d) 2.0
- 9) In the expression int x= 9 ; int is called
 - a) identifier b) constant c) data type d) variable
- 10) $amt=(amt+200>=val *3) ? ++amt : val++;$ if amt =200 and val =100 then amt = ?
 - a) 201 b) 100 c) 101 d) 200
- 11) Select sentence from the following which is incorrect :
 - a) java is independent of hardware
 - b) all data types has different memory capacity
 - c) java is not a case sensitive
 - d) java is OOP language

12) Select proper form of operator

- a) ternary
- b) increment
- c) division
- d) logical

13) System.out.print(Math.floor(5.7)); gives

- a) 7.0
- b) 5.0
- c) 6.0
- d) 5

14) if(a<b) &&(b>c) then largest number is

- a) c
- b) a
- c) b
- d) wrong statement

15) Default value of double data type is

- a) 0.0d
- b) 0.0f
- c) 0
- d) 0L

16) Ternary operator is also known as

- a) selection operator
- b) conditional operator
- c) form operator
- d) relational operator

17) Math.cbrt() always returns

- a) int value
- b) short value
- c) double value
- d) long value

18) Select proper feature about OOP

- i) object is primary true
- ii) Robust
- iii) Approach is only top to bottom

- a) only (i)
- (b) only (iii)
- (c) (i) and (ii)
- (d) (ii) and (iii)

19) The (x>y) &&(x<z) is

- a) arithmetic expression
- b) ternary expression
- c) assignment expression
- d) logical expression

20) Which of the following is not valid operator ?

- a) ++
- b) &&
- c) <=
- d) !=

Question 2

a) Name the following

[4]

- i) Other name of primitive data type _____
- ii) == is _____ operator
- iii) Modulus operator gives _____
- iv) Full form of WORA is _____

b) Define object and class

[2]

c) Explain any two rules for naming identifier

[2]

d) Write output

[2]

```
int x=3 ; char ch ='A' ; ch+=x ;
```

```
System.out.println(ch);
```

```
System.out.println((int)ch);
```

Question 3

a) Write output of the following

[4]

- i) double x =Math.sqrt(64)+Math.abs(-27) ;

ii) `System.out.println(Math.max(-23 , Math.min(-12 , -22));`

iii) `System.out.println("Best "+\t+"Luck");`

iv) `System.out.println ("Answer is="+(3+4));`

b) Execute the following expression

i) $x=7 , y=12$

$z= ++x/2 + -y\%3 + 5$ what value will be stored in z ?

[2]

ii) $x=25 , y=35$ Write the answer after executing following expression

[4]

a) $!(x!=y)$ (b) $(x < y) \&\& (y - x > y/7)$ (c) $x \% 3 = y \% 4$ (d) $x++ <= ++y$

SECTION B (60 Marks)
(Attempt all programs)

Question 4

[12]

Write a program to accept a two numbers using method Perform() and develop a calculator performing following operations on numbers and display result. Operations are (+, -, *, /, %, >, <=, ==)

Question 5

[12]

Write a program to accept student name , division , standard ,marks in Maths , Science and Computer subject using method Result() . Find highest , lowest and average of three subjects. Check if average is more than 90 then student will get "A+" grade otherwise will get " B " grade. Display student name , division , standard , average , grade and highest , lowest.

and grade.

Question 6

[12]

Write a program to accept Customer name , mobile number and basic salary using method Salary ()

Calculate net salary as follows :

HRA = 35 % of basic

DA = 105 % of basic

PF = 12 % of basic

`net_salary=basic+HRA+DA-PF`

Display customer name , mobile number and net salary.

Question 7

[12]

Write a program to accept a number using method Spy_Number() , add and multiply its digits . If sum and product of its digits is same then the number is called "SPY Number" . Display if it is SPY number or not SPY number.

example : n=22 sum=2+2 product 2x2=4 as sum= product , 22 is a SPY number.

Question 8

[12]

Write a program to accept two numbers using method Swap (). Interchange their values. Display both the numbers before and after interchange.