

GreenLawns High School

Warden Road

TERM I EXAMINATION 2025– 26

Std: 9

Subject : Computer Applications

Max. Marks: 100

Date:23/09/25

Time : 2 Hours

Number of printed pages : 3

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 $x=(\text{double})5/2$; what value will be stored in x ?
 - a) 2.0
 - b) 2.5
 - c) 3.0
 - d) 2.0
- 9) In the expression $\text{int } x=9$; int is called
 - a) identifier
 - b) constant
 - c) data type
 - d) variable
- 10) $\text{amt}=(\text{amt}+200>=\text{val} *3) ? ++\text{amt} : \text{val}++$; if $\text{amt}=200$ and $\text{val}=100$ then $\text{amt}=?$
 - 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 tru (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 : $n=22$ $sum=2+2$ $product\ 2 \times 2=4$ 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.