

GreenLawns High School

TERMINAL EXAMINATION 1 2024-25

Std: 9

Subject : Computer Applications

Max. Marks: 100

Date: 24/09/24

Dur. : 2 Hours

Number of printed pages : 3

SECTION A (40 Marks)

Question 1

[20]

Select proper option and write correct answer

- 1) The intermediate code obtained after compilation is called
 - a) Source code
 - b) object code
 - c) java byte code
 - d) machine code
- 2) State the size of float data type in bytes
 - a) 4
 - b) 6
 - c) 8
 - d) 2
- 3) If $a=5$ then solve $a+=++a + a$
 - a) 11
 - b) 10
 - c) 12
 - d) 17
- 4) Which of the following is not a token
 - a) data type
 - b) keyword
 - c) operator
 - d) identifier
- 5) _____ is not principle of java.
 - a) Inheritance
 - b) case sensitive
 - c) abstraction
 - d) inheritance
- 6) Which of the following is valid character literal
 - a) 'ab'
 - b) '\n'
 - c) '12'
 - d) '++'
- 7) Identify valid java statement
 - a) String s='34.56' ;
 - b) int a;b;c;
 - c) Boolean b=true ;
 - d) double b=9.23;
- 8) $\text{double } x=(\text{double})(5/2)$; what value will be stored in x ?
 - a) 2.5
 - b) 2.0
 - c) 3.0
 - d) 2
- 9) In the expression $\text{int } x= 9$; x is called
 - a) identifier
 - b) constant
 - c) variable
 - d) a and c both
- 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 right sentence from the following :
 - a) java is dependent on hardware
 - b) all data types has same memory capacity
 - c) java is case sensitive
 - d) java is pop language
- 12) Select proper form of operator
 - a) ternary
 - b) increment
 - c) division
 - d) relational

- 13) `System.out.print(Math.ceil(5.7));` gives
- a) 7.0 b) 5.0 c) 6.0 d) 5
- 14) `if(a<b) &&(b<c))` then smallest number is
- a) c b) a c) b d) wrong statement
- 15) Default value of boolean data type is
- a) false b) 0 c) true d) 'false'
- 16) if else is also known as
- a) branch statement b) looping statement c) decision making d) jump statement
- 17) `Math.sqrt()` always returns
- a) int data type b) double data type c) depending on the number d) long data type
- 18) Select proper feature about POP
- a) Approach is object centric
- b) Robust
- c) easy to develop
- d) Approach is top to bottom
- 19) The condition in if else statement is
- a) arithmetic expression b) ternary expression
- c) relational and logical expression d) short hand assignment 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 literal _____
- ii) Reserved words in java are called _____
- iii) `Math.random()` always return _____ value
- iv) Full form of WORA is _____
- b) Define object and class [2]
- c) Explain any four rules for naming identifier [4]

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) Convert following if else into ternary operator

[2]

```
char var='M' ;
if(var=='M' )
System.out.println("manager");
else
System.out.println(" staff");
```

c) Write output

[2]

```
int x=3 ; char ch ='A' ;ch+=x ;
System.out.println(ch);
System.out.println((int)ch);
```

d) Write java statement to display "India" and "Japan" on two different lines.
[2]

SECTION B (60 Marks)

(Write all programs using Scanner class)

Question 5

15

WAP to accept a number and check if it is a four digit number or not. If it is four digit then check if it is Tech number or not. Display proper message . (e.g. $2025 = 20+25 = 45$ and $45^2 = 2025$ is a Tech number) If it is not four digit number display message Not A Four Digit Number

Question 6

15

WAP to accept student name , division , marks in Maths , Science and Computer subjects . Find average and display branch student will get with name and division . Criteria for branch student can get is as follows :

average	branch
90 – 100	Science with computer
80–89	Science
65-79	Commerce
50-64	Arts
Less than 50	No admission

Question 7

15

WAP to accept two numbers and choice from user using Scanner class. As per choice perform arithmetic operation on 2 numbers and display the result. if choice =1 then perform addition , 2 then subtraction , 3 then product , 4 perform then division , 5 then modulus. If any other choice then display invalid.

Question 8

15

WAP to accept a character and check if character is uppercase , lowercase , digit , or space or special character . Display proper message .