

BOYS' HIGH SCHOOL AND COLLEGE
FIRST TERM EXAMINATION (2025-26)
CLASS - IX
COMPUTER APPLICATIONS

TIME: 2HRS

MM: 100

This paper is divided into two sections. Attempt all questions from Section A and any four questions from Section B.

SECTION A

(Attempt all questions from this section)

Question 1:

[20]

Choose the correct answer and write the correct option:

- (i) Wrapping up of data and functions together in a single unit is called :
a) Polymorphism c) Abstraction
b) Encapsulation d) Inheritance
- (ii) Java follows the principle of:
a) Write once, run twice c) Write once, run anywhere
b) Write twice, run anywhere d) Write once, run once
- (iii) Which escape sequence is used to insert a horizontal tab / space:
a) /t c) / n
b) \\ t d) \ t
- (iv) Class which inherits features of another class is known as _____ class.
a) super c) base
b) parent d) all of the above
- (v) Java is a/an _____ programming language.
a) Object-Oriented c) Procedure-Oriented
b) Both a and c d) None of these
- (vi) _____ is a function or method that has the same name as the class.
a) Data members c) Objects
b) Constructor d) access specifier.
- (vii) Which statement is **correct** with respect to class?
a) It is a physical entity
b) Memory is allocated when a class is created
c) It is defined only once
d) It is created using "new" keyword.
- (viii) What will be the output of the following code:
int a = -3;
System.out.println (-a++);
a) -3 c) 3
b) 4 d) -4
- (ix) Which operator is known as Member access operator?
a) New operator c) Relational operator
b) Dot operator d) Arithmetic operator
- (x) Which of the following operator compares two expressions and return a boolean value?
a) Ternary c) Logical
b) Relational d) Arithmetic
- (xi) Which feature of Java ensures that it is a strong and reliable language?
a) Simple c) Distributed
b) Platform Independent d) Robust
- (xii) Which of the following is a valid comment?
a) /*-----*/ c) //-----*/
b) /**-----*/ d) /*-----*/
- (xiii) "Accessing null objects" is an example of which error:
a) Syntax error c) Runtime error
b) Logical error d) None of these
- (xiv) Normal Flow of control executes according to which approach?
a) Top-Down Approach c) Bottom-Up Approach
b) Side wise d) None of these
- (xv) What will be the output of the following code?
int c = (a++ * ++b) % (++a + b++); When int a = 4 , b = 2;
a) 4 c) 1
b) 5 d) 3

- (xvi) The method of Scanner class used to accept a float value is:
a) nextDouble() c) nextInt()
b) nextdouble() d) nextFloat()
- (xvii) What is the range of short variable :
a) -128 to 127 c) -32768 to 32767
b) -32767 to 32768 d) -127 to 128
- (xviii) double x = 5;
int y =(int) x; is a _____ type of conversion.
a) Implicit c) Reference
b) Explicit d) Local
- (xix) Which of the following is called java compiler?
a) javab c) javac
b) JVM d) JDK
- (xx) What is the correct syntax for importing Scanner class?
a) import java.util.Scanner; c) import java.util.scanner;
b) import.java.util.Scanner; d) import java.util.Scanner;

Question 2:

- (i) Name the two types of Java Programs. Explain them [2]
(ii) Differentiate between Primitive and Non-Primitive Data Types. [2]
(iii) Evaluate the expression when the value of a=3. [2]
a= ++a + a++ + a + ++a.
(iv) Find the maximum among three variables [2]
int a = 15, b = 10, c = 25; using Ternary Operator.
(v) Write the full form of the following: a)UNICODE b)WORA [2]
(vi) What will be the output of the following code, if int x = 2 , y = 6
boolean z = (x>=y) && !(x==y) || (x<y)
(vii) Write the name of the following operator: [2]
a) || b) <=
(viii) Differentiate between print() and println() methods? [2]
(ix) State how many arithmetic as well as relational operators are there in java [2]
and name them?
(x) Find the error , correct them and rewrite the code: [2]
if(num%2=0){
system.out.println("Number is even"); }
Else{ System.Out.Println("Number is odd");}

SECTION B

(Attempt any four questions from this Section)

Each program should be written using variable description table so that the logic of the program is clearly depicted

Question 3

[15]

Write a program to input marked price and discount rate using Scanner class. Calculate the discount and selling price and print the result.

[Discount = (Marked Price * Discount Rate) / 100 and Selling Price = Marked Price – Discount]

Question 4

[15]

Write a program to input a character using Scanner class and check whether the entered character is in Uppercase, Lowercase, Digit, or a Special Symbol.

Question 5

[15]

Write a program to input three numbers using Scanner class and find the largest of three numbers, then print the square of the largest number and average of three numbers.

Question 6

- a) Write a program to input the age of a player using Scanner class and print the player can play in under 19 tournament or not. [8]
b) Write a program to input two numbers and check if a number is divisible by another number. [7]

Question 7

[15]

Write a program to input marks in five different subjects of a student using Scanner class and calculate the total and percentage of it. If the percentage obtained is greater than or equal to 40 then display the result as "Passed" else print "Failed".

Question 8

[15]

Write a program to input age in years using Scanner class and convert it into number of Days, Hours and Minutes.

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