

SECTION A

(Answer All Questions)

Q1.

- a) Write any four features of Java language? [2]
- b) What are unary, binary and ternary operators? [3]
- c) What are Separators in Java? [2]
- d) What is an applet? [1]
- e) What do you mean by Java Virtual Machine? [2]

Q2.

- a) What is the role played by break statement in case of switch? Give example. [2]
- b) Difference between println() and print() method. [2]
- c) What are instance variables? [2]
- d) What do you mean by import statement? Explain with the help of one example. [2]
- e) What is final variable? Give example [2]

Q3.

- a) Name the package that contains Scanner class. [1]
- b) Write an expression in Java for $z = \frac{7x^3 + 2y}{x + y}$ [2]
- c) What is the difference between next() and nextLine()? Write the syntax also. [3]
- d) What do you mean by block? [2]
- e) State two difference between if and switch. [3]
- f) Rewrite the following statement using ternary operator. [2]
if(ch> 'D') int val=400;
else int val=200;

Q4.

- a) Write short notes on the two view of the table. [2]
- b) Explain any three advantages of MS-ACCESS. [3]
- c) What is a record? [2]

SECTION B

(Attempt any six)

(6 X 10)

Q5. WAP to accept 3 integers and find the greatest from them. Make suitable use of ternary operator.

OR

WAP to accept 3 integers and find the greatest from them. Make use of nested if.

Q6. WAP to input any five numbers(it can be combination of positive and negative) and display the sum of positive numbers, sum of positive even numbers and sum of positive odd numbers.

Q7. Write a class with name employee and input Basic pay. Find the Gross pay and Net pay of an employee with the following allowances and Deduction and display. Use meaningful variable.

Dearness allowance = 25% of Basic pay

House Rent Allowance = 15% of Basic pay

Provident fund = 8% of Basic pay

Gross pay = Basic pay + Dearness Allowance + House Rent Allowance

Net pay = Gross pay - Provident fund.

Q8. WAP to accept 2 integers and find the real quotient and remainder.

Q8. Write a program using java, to print the real quotient obtained by dividing two integer numbers. Also print the remainder obtained after dividing them.

Q9. From the product of the square of a number and the double of the same number, subtract the half of the number and print the result through a Java program.

Q10. Using the switch statement, write a menu driven program to input the code for the colour and display the colour. For an incorrect choice, an appropriate error message should be displayed.

Q11. Define a method vowel for a class that accepts a character and checks whether it is a vowel or a consonant.
