

Attempt all the questions from Section A and any four questions from Section B.

**SECTION 'A'** (40 Marks)

Attempt all the questions

- Q1. a) What are parent and child directories ? [2 each]  
 b) What is the difference between `b*s.txt` and `b?s.*` ?  
 c) State four functions of operating system.  
 d) Write all logical operators in Java.  
 e) Evaluate : `int z = 3/4 *a++ + b--` ; if `a = 2` , `b = 3`.
- Q2. Differentiate between : [2 each]  
 a) assignment and conditional statements  
 b) `cd..` and `cd\`  
 c) high level code and machine language code  
 d) file and directory  
 e) binary and ternary operator
- Q3. (a) Fill in the blanks : (Do Not copy the sentence) [1 each]  
 (i) Before running, we need to \_\_\_\_\_ a Java program using the statement "javac".  
 (ii) The smallest individual unit in a statement is known as \_\_\_\_\_.  
 (iii) In Java , \_\_\_\_\_ can begin with underscore or letters only.  
 (iv) `\n` and `\t` are examples of \_\_\_\_\_.  
 (v) The first directory of the disk is called \_\_\_\_\_ in DOS.
- (b) State True or False. (Do Not copy the sentence) [1 each]  
 (i) MD can create directories as well as subdirectories.  
 (ii) CS clears the screen at DOS prompt.  
 (iii) `<>` signifies not equal to in Java.  
 (iv) `? :` is another way of writing `if.... else` in Java  
 (v) A child directory can have as many parent directories.
- Q4. State and reason the output of the following code segments : [2 each]  
 (a) `int a = 9 , b = 6 , c = 4;`  
`double x = ++a / ++c + b++ * c;`  
`S.o.pln(x);`  
 (b) `int a = 10 , b = 7 , c = 6 , d;`  
`d = a/b + c%4;`  
`S.o.pln(d);`

- (c) `int x =1 , y = 0 , z;`  
`z = x--> y ? x:y;`  
`S.o.pln(z);`
- (d) `int i ;`  
`for(i=10; i>=1; i- =5);`  
`S.o.pln(i);`
- (e) `int h = 'A';`  
`h = - 5;`  
`S.o.pln(h);`

**SECTION 'B' (60 Marks)**

**Attempt any four questions**

*Write the Java programs with mnemonic names, indentation and remarks*

- Q5. Write a Java program for displaying any one of the following outputs : [15]

1 11 111 1111 11111

OR

1.A 2.B 3.C 4.D 5.E

- Q6. Write a program to input an integer and display its multiplication table in proper format. Eg. : 5 X 2 = 10. [15]

- Q7. Write a Java program using switch case to give the following options to the user :- [15]

If choice is 1, display first six Fibonacci numbers

If choice is 2, check if the input number is divisible by 5

- Q8. (a) Write a Java program to input marks obtained by a student and display the grade according to the following table : [9]

Marks	Grade
Below 40	C
41 – 59	B
60 or above	A

- (b) Write the three steps to combine a common document with a mailing list using MS Word. Also name the procedure. [6]

- Q9. (a) Design a Class in Java to input three integers and display the smallest value. [10]

- (b) State any five external commands of DOS. [5]

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