

GIRI's Tech Hub, Pune
Programming (Machine) Test

Batch: June-2024

Date: 26/08/2024
Time: 10:00 to 12:00 Pm

Instructions:

Total : 06 Marks

1. Solve any six program.
2. Input should be from user.
3. All programs comments is mandatory.
4. Each programs 1 Marks.

Section – I (Solve Any Two & Passing For One)

Q1. Write a java program to display following pattern :

```
1
1 * 2
1 * 2 * 3
1 * 2 * 3 * 4
4 * 3 * 2 * 1
3 * 2 * 1
2 * 1
1
```

Q2. Write a java program to display following pattern :

```
A           A
A B         B A
A B C       C B A
A B C D     D C B A
A B C D E E D C B A
```

Q3. Write a java program to display following series :

2 729 4 512 6 343 8 216 10 125 12 64 14 37 16 8 18 1

Section – II (Solve Any Two & Passing For One)

Q1. Write a java program to rotate array by specific index. (Without second array)

Q2. Write a java program to calculate sum of digits in character array.

Input : - giris123tech45hub

Output : - 1+2+3+4+5 = 15

Q3. Write a java program to find union array & intersection array of two arrays.

Input :-

First Array : 1 2 3 4 5

Second Array : 3 4 5 6 7

Output :-

Union Array : 1 2 3 4 5 6 7

Intersection Array : 3 4 5

Section – III (Solve Any Two & Passing For One)

Q1. Write a java program to display following pattern using function recursion.

```
      1
     1 2
    1 2 3
   1 2 3 4
  1 2 3 4 5
```

Q2. Write a java program to check whether number is Strong or Not using function.

Q3. Write a java program to check array is majority array or not using function recursion.

-----ALL THE BEST-----