# **GIRI's TECH HUB, PUNE**

# **Programming (Machine) Test**

Batch : July-24 Date:29/08/2024

# (SET A)

Instructions: Total: 10 Marks

- 1 Solve any 6 programs from all sections.
- 2 For passing ,one question from each section necessary to solve correctly.
- 3 Take all inputs from user.
- 4 1.5 mark for each question and 1 mark for comment and proper indentation.

#### Section - I ( Decision Making )

- 1) Write a program to check, a number is Even or Odd number.
- 2) Write a C program to input electricity unit charges and calculate total electricity bill according to the given condition:

For first 50 units Rs. 0.50/unit

For next 100 units Rs. 0.75/unit

For next 150 units Rs. 1.20/unit

For unit above 250 Rs. 1.50/unit

An additional surcharge of 20% is added to the bill

3) Dr.Hathi from "Gokul-Dham" Society has "Life-Line Clinic" . He fixed a consultation Fees for different age group patients:-

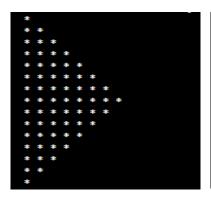
Below table and Dictionary help you to write program.

| Age above 0 yrs and less than 5 yrs | No Fees |
|-------------------------------------|---------|
| Age above 5 yrs and 10 yrs          | Rs.50   |
| Age above 10 yrs and upto 18 yrs    | Rs.100  |
| Age above 18 yrs and upto 40 yrs    | Rs.200  |
| Age above 40 yrs and upto 60 yrs    | Rs.150  |
| Age above 60 yrs                    | No Fees |

## Section – II (Looping)

- 1) Write a program to check any digit number is palindrome number or not.
- 2) Write a program to print all alphabets between A to Z (whose ASCII number is even).
- 3) Write a program to print all Strong numbers between range 1 to n.

## Section – III (Patterns)



```
1
1 2 1
1 2 3 2 1
1 2 3 4 3 2 1
1 2 3 4 5 6 5 4 3 2 1
1 2 3 4 5 6 7 6 5 4 3 2 1
1 2 3 4 5 6 7 8 7 6 5 4 3 2 1
1 2 3 4 5 6 7 8 9 8 7 6 5 4 3 2 1
1 2 3 4 5 6 7 8 9 8 7 6 5 4 3 2 1
```

