SEC35-E3

PYTHON PROGRAMMING

GROUP-A

Answer any *four* questions from the following   3×4 = 12

1. What is the function of identifiers in Python?

2. Demonstrate the use of bitwise operators.

3. What is the difference between break and continue in Python?

4. Discuss interpreted languages with the help of an example.

5. What is scope in Python?

6. Discuss the structure of a Python program.

GROUP-B

Answer any *four* questions from the following   6×4 = 24

7. Demonstrate operator precedence with the help of an example.

8. Write down different features of Python.

9. Write a program in Python to sum up three digits of a number.

10. Write a program in Python to generate first *n* prime numbers.

11. Discuss different types of errors in Python.

12. What are the different elements of Python? Discuss.

GROUP-C

Answer any *two* questions from the following $12 \times 2 = 24$

13. Explain top-down and bottom up programming with the help of examples.

14. What are operators? Explain different types of operators used in Python with the help of examples.

15. Write a program in Python to calculate total marks, percentage and grade of a student. Marks obtained in each of the three subjects are to be taken as inputs by the programmer. Assign grades according to the following criteria.

   (a) Grade A: Percentage $>= 80$

   (b) Grade B: Percentage $>= 70$ and < 80

   (c) Grade C: Percentage $>= 60$ and < 70

   (d) Grade D: Percentage > 40 and < 60

   (e) Grade E: Percentage < 40

16. Write a program in Python to generate the following number triangle:

```
                1
            1   2
        1   2   3
    1   2   3   4
1   2   3   4   5
                :
                :
            n-rows
```

————x————