



**Progressive Education Society's**  
**Modern College of Arts, Science & Commerce Ganeshkhind, Pune – 16**  
**(Autonomous)**  
**End Semester Examination: OCT / NOV 2024**  
**Faculty: Science and Technology**

**Program: B.Sc**  
**Program (Specific): General 03**  
**Class: T.Y.B.Sc**  
**Name of the Course: Python programming**  
**Course Code: 24 – PHY- 3510**  
**Paper: X**

**Semester: V**

**SET: A**  
**Course Type:**  
**Max.Marks: 35**  
**Time: 2Hr**

**Instructions to the candidate:**

- 1) *There are 4 sections in the question paper. Write each section on separate page.*
- 2) *All Sections are compulsory.*
- 3) *Figures to the right indicate full marks.*
- 4) *Draw a well labelled diagram wherever necessary.*

**SECTION: A**

**Q1) Multiple Choice Question**

**5**

1) Commands given to the computer that tells what it has to do are.....

- |              |                 |
|--------------|-----------------|
| a) Data      | b) information  |
| c) knowledge | d) instructions |

2) Which of the following errors is generated when rules of a programming language are violated.....

- |                 |                   |
|-----------------|-------------------|
| b) Syntax error | b) Semantic error |
| c) Linker error | d) Logical error  |

3) Which operator gives the remainder after division

- |      |       |
|------|-------|
| a) / | b) // |
| c) % | d) *  |

4) Which statement ends the current iteration of the loop and continues with the next one .....

- |          |                  |
|----------|------------------|
| a) break | b) Continue      |
| c) skip  | d) None of these |

5) A function calls itself from its own function body is called..

- |               |                  |
|---------------|------------------|
| a) recursive  | b) nested        |
| c) Argumented | d) None of these |

**Q2) Answer the following (Attempt any 4)**

**4**

- i) What are input and output devices.
- ii) What is assembler.

- iii) What is syntax of *if-else* statement.
- iv) What is local variable in a python program
- v) Write the names of any four modules
- vi) What is indentation in python programming

### SECTION: B

#### Q3) Short answer questions (Attempt any 4) 8

- i) Write a short note on interpreter.
- ii) What is run time error .
- iii) What is Concatenation, explain with suitable example.
- iv) What is Tuple explain it with suitable example .
- v) Explain Random module with suitable example.
- vi) State any three weaknesses of python language.

### SECTION: C

#### Q4) Long answer questions (Attempt any 2) 8

- i) Explain slice a string with suitable example
- ii) What is use of *while loop* and write its syntax
- iii) Write the output of the program

```
str = 'python is easy'
print (str [0] )
print (str [ :5] )
```

- iv) Write the output of the program

```
for i in range (1,5) :
    print(i ,end= '')
```

### SECTION: D

#### Q5) Long answer type Questions (Attempt any 2) 10

- i) Explain with suitable example how to call a function with arguments
- ii) Write a python program to calculate factorial of a given number using call function
- iii) Using *while loop* write a python program to find sum of digits of a number ( give input 567)
- iv) Write a python program to calculate area of a circle.

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