

2025

M.Sc. 1st Semester Examination

REMOTE SENSING AND GIS

Paper : RSGC407X0

(Introduction to Python Programming for
Geospatial Analysis)

Full Marks : 25

Time : One Hour

The figures in the margin indicate full marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

Illustrate the answers wherever necessary.

Group - A

Answer any *two* questions : $2 \times 2 = 4$

1. How would you sort a list in reverse order in Python?
2. Distinguish between pseudo-code and a flowchart.
3. What will be the output of the following Python code :

```
word = 'RS_and_GIS'
```

```
print (word [: 2]*3)
```
4. What is the difference between *list* and *tuple* in Python?

P.T.O.

(2)

Group - B

Answer any *two* questions : $4 \times 2 = 8$

5. Explain the conditional statement with an example.
6. What are the differences between *continue* and *break* statements? Explain using examples.
7. Explain the *insert()* and *remove()* method of Python list with suitable examples for each.
8. (a) How does a *numpy array* differ from a *list*?
(b) How do we check if two *numpy arrays* are equal or not? $2+2$

Group - C

Answer any *one* question : $8 \times 1 = 8$

9. How will you create a Package and import it? Explain it with an example program. $4+4$
10. (a) Write a Python code to take a number '*n*' from user as input and generate all the prime numbers from 3 to *n*.
(b) How do you import a csv file in Python? $6+2$

Internal Assessment - 5 marks
