

Exam. Code : 206602

Subject Code : 4708

M.Sc. Bioinformatics 2nd Semester (Batch 2021-23)
PROGRAMMING IN PERL AND PYTHON FOR
BIOINFORMATICS

Paper-BI-522

Time Allowed—3 Hours] [Maximum Marks—75

Note :- Attempt FIVE questions in all, selecting at least ONE question from each Section. The fifth question may be attempted from any Section. All questions carry equal marks.

SECTION—A

1. Write the features and benefits of PERL.
2. (a) What are scalar variables and scalar values ? Which are different types of Arrays in PERLS ?
(b) What is hash in PERL ? Give examples. How can you create and access hash values in PERL ?

SECTION—B

3. (a) What are regular expressions in PERL ? Give examples.
(b) What do you mean by Pattern matching and Meta symbols in PERL ?
4. Explain any five applications of PERL for bioinformatics.

SECTION—C

5. Write the features of Python. Which are various data types available in Python ?
6. Explain the use of list, tuple, string and dictionary in Python. Give examples of each.

SECTION—D

7. What is object oriented programming ? How can you create a class in Python ? What is difference between class and object ?
8. Explain GUI toolkits available in Python.