

- 12.a. Write subroutines with an example. CO2K1
(or)
- 12.b. Define regular expressions in perl with example. CO2K6
- 13.a. Elaborate: python dictionaries. CO3K3
(or)
- 13.b. Write the Basic syntax in python with sample program. CO3K2
- 14.a. How to use debugging in python programming? CO4K2
(or)
- 14.b. Describe the regular expressions in python. CO4K4
- 15.a. How to execute small module in bioperl? CO5K1
(or)
- 15.b. Write any simple program in biopython. CO5K5

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Discuss in detail: lists and arrays in perl. CO1K6
(or)
- 16.b. Elaborate Input/output operations in perl. CO1K5
- 17.a. What are directories available in perl? Give detail. CO2K3
(or)
- 17.b. Explain in detail File handling – with an example. CO2K4
- 18.a. Discuss the image of Control structures in python. CO3K2
(or)
- 18.b. Explain with example the input and output operations in python. CO3K1
- 19.a. What is classes and objects in python and give its importance? CO4K2
(or)
- 19.b. Discuss the exception handling in python programming. CO4K5
- 20.a. Write a python program to extract the whole coding sequences from GENBANK? CO5K4
(or)
- 20.b. Elaborate the step by step procedure in the Installation of python. CO5K3
