

Master's Degree Examination November 2018
Semester – III

Class : II PG
Major : Bioinformatics

Time : 3 hours
Max. marks : 60

17MBIC14 – Scripting Languages and Database Management System

Part – A

10 x ½ = 5

Choose the correct answer

1. PERL is
 - a.Periodic Elimination of Recurrent Loops
 - b.Practical Extraction and Reporting Language
 - c.Permissible Extraction and Reporting Language
 - d.Permissible Elimination and Reporting Language

2. __ function is used for removing the last character from the line.
 - a.Cut
 - b. erase
 - c. append
 - d.chop

3. L = ['a','b','c','d'] print "".join(L)
 - a. None
 - b.abcd
 - c. ['a','b','c','d']
 - d.error

4. Which of these is not a built-in data type in python?
 - a. Dictionary
 - b.Tuples
 - c. class
 - d.Lists

5. What arithmetic operators cannot be used with strings?
 - a. +
 - b. *
 - c. -
 - d. All of the Above

6. Which of the following commands will create a list?
 - a. list1=list()
 - b. list1= [].
 - c. list1=list([1,2,3])
 - d. all of the above

7. A relational database consists of a collection of
 - a. Fields
 - b. Records
 - c. keys
 - d. Tables

8. The intersection operator is used to get the ____ tuples.
 - a. Common
 - b. All
 - c. Repeating
 - d. Different

9. Which form simplifies and ensures that there is minimal data aggregates and repetitive Groups?
 - a. 1NF
 - b. 2NF
 - c. 3NF
 - d. All of the mentioned

10. What are the after triggers?
 - a. Triggers generated after a particular operation
 - b. Triggers run after an insert, update or delete on a table
 - c. Triggers run after an insert, views, update or delete on a table
 - d. All of the above

Part-B

(5 x 4= 20)

Answer ALL questions

Each answer should not exceed 200 words or one page

11. a. List the features of Perl.
Or
11. b. Explain about Initialization and fetching an element of a Hash.
12. a. Write a python program to exchange the value of two variables.
Or
12. b. Explain with example while loop and break statement in python.
13. a. Explain executing small modules in BioPerl.
Or
13. b. Write a Biopython program to get a slice of the sequence.
14. a. Explain about Data types in Oracle.
Or
14. b. Give a comparison of BCNF and 3NF.
15. a. Explain about Triggers.
Or
15. b. Write short notes on creating reports.

Part-C

(5 x 7= 35)

Answer ALL questions

Each answer should not exceed 600 words or three pages

16. a. Explain in detail about if and while loop in Perl.
Or
16. b. Explain in detail about subroutines in Perl.
17. a. Write short notes on Lists and dictionaries in python.
Or
17. b. Explain in detail about exception handling in python.
18. a. Explain about Translation using BioPERL with example.
Or
18. b. Write a program for concatenating two sequences using python. .
19. a. What is index? Explain its types.
Or
19. b. List different types of constraints in oracle and explain about any two?
20. a. Explain the following
i) Procedure
ii) Packages
Or
20. b. Write short notes on creating menus.