CBCS SCHEME

USN | | | | | | | | | |

15BT36

Third Semester B.E. Degree Examination, June/July 2019
Basic of Computer Applications

Time: 3 hrs. Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1 a. Define the file structure of Linux. **(05 Marks)**
b. How to change file permission? Explain with example. **(06 Marks)**
c. Write a shell scripting to find the area of triangle. **(05 Marks)**

OR

2 a. Infer the applications of XML in biology. **(08 Marks)**
b. Illustrate the following : i) CDATA Sections ii) DTD. **(08 Marks)**

Module-2

3 a. How does internet works, explain with the help of OSI model. **(08 Marks)**
b. Explain scientific search engine? Construct the protocol with an example. **(08 Marks)**

OR

4 a. Explain the advantages of DBMS over flat files. **(08 Marks)**
b. With suitable example explain E-R relational model. **(08 Marks)**

Module-3

5 a. With example explain the steps in building an ontology. **(08 Marks)**
b. With suitable diagram, explain the working of TAMBIS otology. **(08 Marks)**

OR

6 a. Plot the function $e^{(-x/3)}$ sin (x) where $0 \leq x \leq 4\pi$ using MATLAB. **(08 Marks)**
b. Outline applications of MATLAB in biotechnology. **(08 Marks)**

Module-4

7 a. Explain the basic structure of C program. **(08 Marks)**
b. With example explain the concepts of Encapsulation and polymorphism. **(08 Marks)**

OR

8 Explain Bioperl with an applications to Biotechnology. **(16 Marks)**

Module-5

9 a. Write a C program to find the specific growth rate of an organism. **(08 Marks)**
b. Construct a C program to find the holding time during sterilization process. **(08 Marks)**

OR

10 a. Explain the application of C++ programming in NCBI's toolkit for sequence analysis. **(08 Marks)**
b. Write a C++ program to find the P^H maximum during enzyme activity. **(08 Marks)**

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