CBCS Scheme

USN | | | | | | | | | | |

15BT36

Third Semester B.E. Degree Examination, Dec.2016/Jan.2017
Basics 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. Explain different types of basic Linux commands. **(08 Marks)**
b. Illustrate IF-ELSE condition and while loops. **(08 Marks)**

OR

2 a. Explain BioXML and CML. **(08 Marks)**
b. With an example construct XML documents. **(08 Marks)**

Module-2

3 a. Demonstrate internet protocol and internet addresses. **(08 Marks)**
b. What is a WWW proxies? Explain how proxy servers are implemented using functions. **(08 Marks)**

OR

4 a. What are flat files? Outline the drawback of storing data using flat file. **(08 Marks)**
b. Explain with a neat diagram, create a new data Base in MS – Access. **(08 Marks)**

Module-3

5 a. Explain Gene-ontologies (Go) with three different sections. **(08 Marks)**
b. What is Open Biomedical Ontologies (OBO)? Explain 3 OBD prespectives. **(08 Marks)**

OR

6 a. Explain with diagram workspace Environment in MATLAB. **(08 Marks)**
b. Explain Matrices in MATLAB with examples. **(08 Marks)**

Module-4

7 a. Write short notes on : i) Poly morphism ii) Inheritance **(08 Marks)**
b. Write short notes on : i) Variables – in C++ ii) Operators – in C++ **(08 Marks)**

OR

8 a. With any simple example, explain array of objects – in C++. **(08 Marks)**
b. Briefly explain functions in C++. **(08 Marks)**

Module-5

9 a. Explain different types of modules in – NCBI's C++ toolkits. **(08 Marks)**
b. Construct a C program to find the specific growth rate of microorganism in a bioreactor. **(08 Marks)**

OR

10 a. Build C program to find Thermal death constant. **(08 Marks)**
b. Explain Algorithm to find optimum pH and temperature for maximum enzyme activity. **(08 Marks)**

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