END TERM EXAMINATION

FIRST SEMESTER [BCA] DECEMBER 2017

Paper Code: BCA-107   **Subject: Introduction to Computers and IT**

Time: 3 Hours   Maximum Marks: 75

Note: Attempt any five questions including Q.no.1 which is compulsory. Select one question from each unit.

Q1 (a) Define architecture of computer system.   **(5x5=25)**
    (b) Differentiate between Low Level and High Level Language.
    (c) Define Operating System. Name two open source OS.
    (d) Differentiate between LAN and WAN.
    (e) Define Telnet.

Unit-I

Q2 (a) Discuss classification of computers.   **(6)**
    (b) Explain functionality of magnetic Hard disk.   **(6.5)**

Q3 (a) Explain Serial Access memory.   **(6)**
    (b) Differentiate between Magnetic Tape Drive and Magnetic Hard Disk. **(6.5)**

Unit-II

Q4 (a) Differentiate between Assembler, Compiler and Interpreter. **(6.5)**
    (b) Explain role of linker.   **(6)**

Q5 (a) Explain the procedure of mail merge in MS-WORD.   **(6)**
    (b) What is the importance of Algorithm and Flow Chart in computer
        program?   **(6.5)**

Unit-III

Q6 (a) Convert the following: **(6.5)**
        $(11011)_2 = (?)_8$
        $(2BCA)_H = (?)_2$
        $(345)_8 = (?)_H$
        $(879)_{10} = (?)_H$
        $(0101 10001)_2 = (?)_H$
    (b) Explain the role of ASCII code is computer system.   **(6)**

Q7 (a) Convert the following: **(6.5)**
        (i) $(11.01)_2 = (?)_{10}$
        (ii) $(54AA)_H = (?)_8$
        (iii) $(707)_8 = (?)_2$
        (iv) $(49.54)_{10} = (?)_2$
    (b) Explain EBCDIC code functionality in computer system.   **(6)**

Unit-IV

Q8 (a) Discuss various data transmission media.   **(6)**
    (b) Differentiate between Digital and Analog Transmission.   **(6.5)**

Q9 (a) Explain Client-Server architecture.   **(6.5)**
    (b) Discuss Network topologies.   **(6)**

****