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)**
      $(1 1 0 1 1)_2 = (?)_8$
      $(2 B C A)_H = (?)_2$
      $(3 4 5)_8 = (?)_H$
      $(8 7 9)_{10} = (?)_H$
      $(0 1 0 1 1 0 0 0 1)_2 = (?)_H$
    (b) Explain the role of ASCII code is computer system.   **(6)**

Q7   (a) Convert the following: **(6.5)**
      (i) $(11.01)_2 = (?)_{10}$
      (ii) $(5 4 A A)_H = (?)_8$
      (iii) $(7 0 7)_8 = (?)_2$
      (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)**

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