

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)
- $(11011)_2 = (?)_8$
- $(2BCA)_H = (?)_2$
- $(345)_8 = (?)_H$
- $(879)_{10} = (?)_H$
- $(010110001)_2 = (?)_H$
- (b) Explain the role of ASCII code in 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)
