(Please write your Exam Roll No.) Exam Roll No. 01514202018

END TERM EXAMINATION

FIRST SEMESTER [BCA] NOVEMBER-DECEMBER 2018

Paper Code: BCA-107 **Subject: Introduction to Computers & 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 Write short notes of the following: **(Any Five)** **(5x5=25)**

(a) What is the difference between magnetic tape drives and magnetic disk drives?

(b) Draw the block diagram of computer with various components and discuss their functing in detail.

(c) Describe the various network topologies with examples.

(d) What is an instruction set? Explain the various types of addressing modes.

(e) Discuss the various data transmission modes.

(f) Explain ROM, PROM, EPROM and UVEPROM.

UNIT-I

Q2 (a) Discuss the evolution of computers with the technologies used from first to fifth generation. **(6.5)**

(b) What are the various classification of computers. Explain with examples **(6)**

OR

Q3 (a) Define memory. Explain different types of memory used in computers **(6.5)**

(b) Differentiate between static and dynamic RAM. **(6)**

UNIT-II

Q4 (a) What are functionalities of operating system? Explain in detail. **(6.5)**

(b) "An Algorithm is a step by step procedure to solve a problem". Write an algorithm for decimal to binary conversion. **(6)**

OR

Q5 (a) What is a computer software. Discuss the role of assemblers, compilers, interpreter and linker. **(6)**

(b) What is the difference between low level languages and high level languages? Explain with examples **(6.5)**

UNIT-III

Q6 Evaluate the following: **(12.5)**

(a) Convert 39C8 from base 16 to base 2.

(b) Convert 11101100 from gray to binary

(c) Convert 23 from base 10 to base 8.

(d) Multiply 101101 by 110.

(e) Divide 11010 by 101.

OR

Q7 (a) Differentiate between 1's complement and 2's complement in binary system. Given A=123 and B=55. **(6.5)**

(b) Write short notes on grey and ASCII codes. **(6)**

UNIT-IV

Q8 (a) Discuss the various types of networks with examples? What is the difference between intranet and extranet. **(6.5)**

(b) Discuss client server architecture in detail. **(6)**

OR

Q9 Write Short notes on **(any three)**: **(12.5)**

(a) World wide web

(b) FTP

(c) Telnet

(d) HTTP

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