

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 functioning 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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