(Batch: 2011 onwards)

Maximum Marks :75

Subject: Introduction to Computers & IT

Paper Code: BCA107

Time: 3 Hours

END TERM EXAMINATION

FIRST SEMESTER [BCA] DEC.2014 - JAN.2015

Note: Attempt any five questions including Q.no.1 which is compulsory.

Select one question from each unit.

Q1	(a) (b)	List and explain important characteristics of a computer. Explain the 5 basic functions performed by a computer system. Differentiate between static and dynamic RAM.	(2.5x10=25)
		Distinguish between a sequential access, a direct access and a ristorage device. Draw a flowchart to print the list of all students who have above class. What is an assembler? Convert (i) (5263) ₁₀ =() ₁₆ (ii) (101100011101) ₂ =() ₈ . Explain various functions performed by an operating system in a comexplain the data transmission modes. Write short note on file transfer protocol. Write BCD codes for (i) (45) ₁₀ (ii) (256) ₁₀ . Distinguish between LAN, MAN and WAN.	50 marks in a
		UNIT-I	
Q2		What is generation in computer terminology? Explain varie generations along with key characteristics of computers of each generation which was a computer of each generation of the computer of each generation of the computer of the computer of each generation of the computer of the comp	
Q3		What is an output device? Explain some commonly used output device Write short notes on - (i) Optical Mark Reader (ii) Image Scanner.	(6.5)
Q4	(a) (b) (c)	INIT-II fferentiate between the following:- Low-level and High-level languages Linker and Loader Compiler and Interpreter System software and Application software	(3.5+3+3+3)
Q5		What is an operating system? Explain the different types of operating Write the algorithm, pseudocode and draw a flowchart to add all from 1 to 100.	
		<u>UNIT-III</u>	
Q6	(la)	Convert the following:- (i) $(33.63)_{10}=()_2$ (ii) $(45.6)_{10}=()_8$ (iii) $(634)_{10}=()$ (iv) $(111000)_2=()_{16}$ (v) $(101.1011)_2=()_{10}$ (vi) $(A34)_{16}=()$ Perform the following:- (i) $(11101)_2+(1011)_2=()_{10}$ (ii) $(11.110)_2+(101.1)_2=()_{10}$ (iii) $(11000)_2-()_{10}$	(2+2+2.5=6.5)
Q7		Perform the following conversions:- (i) (125) ₁₀ =() ₄ (ii) (ABC) ₁₆ =() ₈ (iii) (2B.D4) ₁₆ =() ₈ Write short notes on the following:- (i) BCD code (ii) Grey code (iii) Representation of negative code (iii) Representation (iiii) Representation of negative code (iiii) Representation (iiiii) Representation (iiiii) Representation (iiiiii) Representation (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	(2+2+2.5=6.5)
UNIT-IV			
Q8		rite short notes on the following:- Network topologies (b) Telnet (c) URL (d) World Wide Web (e) E	(2.5x5=12.5) lectronic mail
Q9		Explain web servers, web browsers and search engines. Explain the uses of internet.	(6) (6.5)