Subject: Introduction to Computers & IT

Paper Code: BCA107



## **END TERM EXAMINATION**

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

	(Batch: 2011 onwards)
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 Attempt <u>any ten</u> questions of the following:-  (a) List and explain important characteristics of a com  (b) Explain the 5 basic functions performed by a comp  (c) Differentiate between static and dynamic RAM.	
(d) Distinguish between a sequential access, a direstorage device.  (e) Draw a flowchart to print the list of all students class.	
What is an assembler?  (g) Convert (i) (5263) <sub>10</sub> =() <sub>16</sub> (ii) (101100011101)  (h) Explain various functions performed by an operation of the data transmission modes.  (i) Write short note on file transfer protocol.  (k) Write BCD codes for (i) (45) <sub>10</sub> (ii) (256) <sub>10</sub> .  (l) Distinguish between LAN, MAN and WAN.	
Q2 (a) What is generation in computer terminolog generations along with key characteristics of compute (b) Write short notes on - (i) Cache memory	
Q3 (a) What is an output device? Explain some commonl (b) Write short notes on - (i) Optical Mark Reader (ii)	ly used output devices. (6.5) ii) Image Scanner. (6.5)
Q4 Differentiate between the following:  (a) Low-level and High-level languages (b) Linker and Loader (c) Compiler and Interpreter (d) System software and Application software	(3.5+3+3+3)
Q5 (a) What is an operating system? Explain the different (b) Write the algorithm, pseudocode and draw a flow from 1 to 100.	
UNIT-III	
Q6 (a) Convert the following:- (i) $(33.63)_{10}=()_2$ (ii) $(45.6)_{10}=()_8$ (iv) $(111000)_2=()_{16}$ (v) $(101.1011)_2=()_{10}$ (b) Perform the following:-	(iii) (634) <sub>10</sub> =() <sub>16</sub> (vi) (A34) <sub>16</sub> =() <sub>2</sub> (2+2+2.5=6.5)
(i) (11101) <sub>2</sub> +(1011) <sub>2</sub> =() <sub>10</sub> (ii) (11.110) <sub>2</sub> +(101.1) <sub>2</sub> =  Q7 (a) Perform the following conversions:- (i) (125) <sub>10</sub> =() <sub>4</sub> (ii) (ABC) <sub>16</sub> =() <sub>8</sub> (b) Write short notes on the following:- (i) BCD code (ii) Grey code (iii) Rep	(iii) (11000) <sub>2</sub> -(101) <sub>2</sub> =() <sub>10</sub> (iii) (2B.D4) <sub>16</sub> =() <sub>2</sub> (2+2+2.5=6.5) (2+2+2.5=6.5) (2+2+2.5=6.5)
<u>UNIT-IV</u>	
Q8 Write short notes on the following:- (a) Network topologies (b) Telnet (c) URL (d) Work	(2.5x5=12.5) rld Wide Web (e) Electronic mail
Q9 (a) Explain web servers, web browsers and search en (b) Explain the uses of internet.	gines. (6) (6.5)

