BCA-101(O)

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B. C. A. (First Semester) **EXAMINATION, Dec., 2013**

(Old Course)

Paper First

COMPUTER FUNDAMENTALS

Time: Three Hours | Maximum Marks: 75

Note: Section A is compulsory. Attempt any seven questions from Section B and one question from Section C.

Section - A

- 1. What is number system? Write the difference between a positional and non-positional number system.
- Explain how a decimal number converted into binary octal and hexadecimal number and vice versa. Give an example of each conversion.

Section - B

- What are the types of memories available in the computer system? How are they organized in the hierarchy?
- Distinguish between the following:
 - Sequential mode and Random mode Primary memory and Internal process or memory (u)
 - (iii) Static RAM and Dynamic RAM

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5.	What is auxiliary memory? State at least four uses of it. 7
6.	Differentiate between magnetic tape and magnetic disk. 7
7.	What do you mean by optical scanning devices? Explain any four such devices.
8.	Define a flowchart. List some important reasons for using flowcharts.
9.	Explain the three basic structures of pseudocode with suitable example.
10.	Write and explain relationship between software and hardware.
11.	Write and explain about MIPS and MFLOPS. Also explain how these components are related with the computer
an	Note: Section A is compulsory. Attempt any arrest question C. from Section B and D. noitoes from Section C.
No	te: Attempt any one question.
12.	Write the following operations with one example: 121 (i) Binary addition the factorized con that tenotized (ii) Binary subtraction
13.	Write short notes on the following : In Immosbaced bas 12
1	(i) Hypothetical computer .noiaravnoo doso lo
	(ii) Type of processor:noity=2
12	(iii) Structure of Instructions to segyt add are tadW . 8
7	system? How are they organized in the hierarchy?
7	Distinguish between the following : (i) Sequential mode and Random mode
BC	OEE Primary memory and Internal process or memory (iii) Static RAM and Dynamic RAM