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Name:	(8)
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Invigilator's Signature :	

CS/B.Pharm(OLD)/SEM-1/CS-103/2009-10 2009

BASIC ELECTRONICS & COMPUTER APPLICATIONS

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

			(Multiple Choice Ty	pe Qu	estions)		
1.	Cho	oose the correct alternatives of the following : $10 \times 1 = 10$					
	i) Analytical engine was developed by						
		a)	Von Numan	b)	Charles Babbage		
		c)	Herman Hollerith	d)	Bill Gates.		
	ii)		p plugged onto the tem is	mothe	erboard in a computer		
		a)	LSI	b)	VLSI		
		c)	MSI	d)	XLSI.		
	iii)	ii) The fastest memory in a computer system is					
		a)	Primary memory	b)	Secondary memory		
		c)	ROM	d)	Cache.		

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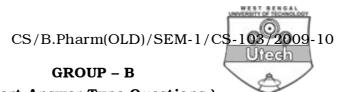
- iv) LCD stands for
 - a) Liquid Colour Display
 - b) Light Colour Display
 - c) Lithium Crystal Display
 - d) Liquid Crystal Display.
- v) Which of the following is an imaginary memory?
 - a) Cache memory
- b) Virtual memory
- c) Primary memory
- d) Register memory.
- vi) C programming language is
 - a) object oriented programming language
 - b) procedural language
 - c) structured query language
 - d) web based language.
- vii) Which one of the following is system software?
 - a) Microsoft word
- b) Adobe Photoshop
- c) Operating systems
- d) Oracle.
- viii) PC stands for
 - a) Private Computer
- b) Personal Computer
- c) Primary Computer
- d) None of these.

- ix) UNIX is
 - a) Single user OS
- b) Multitasking OS
- c) Multi-user OS
- d) Multi-dimension OS.
- x) In a semiconductor arrow represents

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- a) N-type material
- b) P-type material
- c) Both (a) and (b)
- d) None of these.

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(Short Answer Type Questions) Answer any three of the following.

- 2. Discuss some characteristics of the computer.
- 3. Describe briefly different modes of transistor operation.
- 4. Describe key characteristics of computers of each generation.
- 5. Explain the difference between volatile and non-volatile memory. Write an example of each type of memory.
- 6. What are the main limitations of primary storage of a a) computer system? 3
 - Why is secondary storage used? b)

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7. What is software? Describe briefly the different types of software. 1 + 4

GROUP - C

(Long Answer Type Questions) Answer any three of the following. $3 \times 15 = 45$

8. a) What is flow-chart? 2

Describe briefly the advantages and limitations of flowb) charts.

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Draw flow-chart for addition of n numbers. c)

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- 9. a) What are the advantages and limitations of machine language?
 - What are the different between source code and object b) code?
 - Write an algorithm of *C* program of the equation $x^2 - 5x + 6 = 0$. 5

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ANY SERVICE OF TROMPOLOGY
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10. a) What is Operating Systems?
b) Write some advantages and disadvantages of multi-user
operating systems over multitasking.
c) What are the main functions of Operating Systems?
Write short note on different types of Operating
Systems. 7
11. a) What is semiconductor ? Write some important
properties of semiconductor.
b) What is Integrated Circuit ? What is the difference
between integrated circuit over discrete circuit? $2 + 3$
c) Write short notes on any of the two components :
Diode, Resistor, Capacitor.
12. a) What is virtual memory? How is it useful? 2 + 3
b) What are the applications of computers in
Pharmaceutical laboratory?
c) What is DOS stand for ? Write five DOS commands

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with its function.