2014

Time: 3 Hours

Full Marks -75

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

The questions are of equal value

Answer any five questions In which Q No.1 is compulsory

1.	Choose the correct answer of the following:		
	a)		is a very small computer that can be held in the palm of the hand.
		i)	PDC
		ii)	PC
		iii)	Laptop
		iv)	Mini Computer
	b)	A group of 8 bits is called a	
		i)	Bite
		ii)	Byte
		iii)	Octbits
		iv)	None of the above
	d)	The binary equivalent of (359) ₁₀ is	
		i)	101010100
		ii) iii)	110011000 101100111

iv)

None of the above



e)	A gat	A gate which is also known as inverter is					
	i)	AND					
	ii)	OR					
	iii)	NOT					
	iv)	NAND					
f)	The o	The octal addition of $(25)_8$ and $(15)_8$ is					
	i)	$(42)_8$					
	ii)	$(40)_8$					
	iii)	$(41)_8$					
	iv)	None of these					
g)	The s	The set of wires, which carry information in a controlled manner is					
	i)	System bus					
	ii)	Public bus					
	iii)	Private bus					
	iv)	None of the above					
h)	The r	The memory, which is utmost access able to the processor is					
	i)	RAM					
	ii)	Cache Memory					
	iii)	ROM					
	iv)	None of the above					
i)	Rotat	Rotational delay is also known as					
	i)	Seek time					
	ii)	Shift time					



iii)	Latency
iv)	Access time

- j) Which among the following is not a pointing device?
 - i) Trackball
 - ii) Lightpen
 - iii) Scanner
 - iv) Mouse.
- 2. Explain the various applications of computer.
- 3. a) Draw a block diagram to illustrate the basic organization of a computer system.
 - b) Explain the functions of various units of a computer system.
 - 4. a) What do you mean by hard copy and soft copy?
 - b) Differentiate between impact and non-impact printers.
 - 5. Explain the storage organization of a magnetic tape. What are its advantages and Disadvantages?
 - 6. What are the different types of computers? Discuss the advantages of using Mini computer over micro computer.
 - 7. Perform the binary arithmetic using 2's complement:
 - a) 10111001 + 10011001
 - b) 00001010 00110011
 - c) 1000011 00110101
 - 8. What do you mean by language translator? Differentiate between compiles and Interpreter.
 - 9. Differentiate between them:
 - a) Uniprocessor and multiprocessor
 - b) Computer and human brain
 - 10. What is an instruction Act? Explain RISC and CISC architecture.

