## Bharati Vidyapeeth (Deemed to be University), Pune

## **School of Distance Education**

Assignment No.: 1

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Со	urse:	BCA	Class:	BCA I	Semester:	П	
Sub	ject:	Computer Organization and Architecture					
Q.1)	Q.1) Answer the following questions in 1000 words (Any One) (10)  Explain the functioning of 4 bit bi-directional shift register with parallel						
	a)	load.	ctioning of 4 bit bi	-directional	shift register with pa	arallel	
	<b>b</b> )	What is binary counter? Design 4 bit binary counter with JK flip-flop and discuss working of it.					
Q.2) Answer the following questions in 800 words (Any Ty					Two)	(12)	
	a)	What is combinational circuit? Describe half and full adder with help of circuit diagram and truth table.					
	<b>b</b> )	Explain working	g of 4 to 1 line mu	ltiplexer.			
	c)	Discuss the instruction cycle with help of flow chart.					
	d)	Draw the block diagram of 4 bit adder-substractor and discuss the functioning.					
Q.3)	Writ	rite a Short Note on (Any Two)					
	a)	Interrupt cycle					
	b)	Register transfer	language				
	c)	Decoder					
	d)	Computer instru	ctions				

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