2012

Time: 3 hours

Full Marks: 80

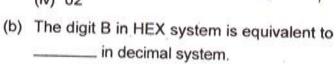
Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

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

- Choose the correct alternative for the following:
 - (a) The number of digits in decimal system is :
 - (i) 8
 - (ii) 10
 - (iii) 16

 - (iv) 02



- (i) 13
- (ii) 10

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(Turn over)

	(iii)	11				
ä	(iv)	12				
(c)	Which of the following binary numbers is					
	equivalent to decimal 12 ?					
	(i)	1000	1	ii)	1100	
	(iii)	1010	(iv)	0110	g
(d)	Which of the following logic families is the fastest?					
	(1)	RTL	le rue (ii)	DTL	
	(iii)	ECL	(i	iv)	CMOS	
(e)	Which of the following gates is the universal gate?					
	(i)	OR	(ii)	AND	0
	(iii)	NOT	S	iv)	NOR	, \
(f)	Flip-flop basically is a :					
	(i) Astable multivibrator					
	(ii) Mono-stable multivibrator					8 (
	(iii) Bi-stable multivibrator					
	(iv) None of these					
(g)	Which of the following circuits is an example					
	of sequential circuit ?					
	(i)	Adder				
TX - 10/2			(2)			Contd

