

a) Combinational circuits

c) Latches

## **Tribhuvan University**

## Faculty of Humanities & Social Sciences OFFICE OF THE DEAN 2019

Cour Code	elor in Computer Applications se Title: Digital Logic No: CACS 105 ester: 1st	Symbol 1	Full Marks: 60 Pass Marks: 24 Time: 3 hours	
		e questions in their own words as far as possible.		
		Group A		
Atte	mpt all the questions.		$[10 \times 1 = 10]$	
1. C	Circle (O) the correct answer.			
i)	Which one of the following is hexadecimal equivalent of (5073.052) <sub>8</sub> ?			
	a) A3C.150	b) B2B.140		
	c) A3B.150	d) B3A.150		
ii	) Which one of the following is	•		
	a) 4926.947	b) 3926.947		
	c) 4926.937	d) None of the Above		
iii	Which one of the following is the equivalent reflected code of 1101?			
	a) 1001	b) 1011		
	c) 1000	d) 1010		
iv	When output will go high in NOR Gate?			
	a) if all inputs are high	b) if any input is high		
	c) if any input is low	d) if all inputs are low		
v)	According to Boolean algebra: What is the value of $X + 1 = ?$			
	a) $\bar{X}$	b) 1		
	c) 0	d) <i>X</i>		
vi)	The logic circuits whose outputs at any instant of time depends only on the present inp but also on the past outputs are called			

b) Sequential circuits

d) Flip-flops

vii)	If $Q = 1$ , the output is said to be		
	a) Reset	b) Set	
	c) Previous state	d) current state	
viii)	ii) Which one of the following are also called ripple counters?		
	<ul><li>a) SSI counters</li><li>c) Asynchronous counters</li></ul>	<ul><li>b) Synchronous counters</li><li>d) VLSI counters</li></ul>	
ix)	How many flip-flops are required to construct MOD-30 counter?		
	a) 5	b) 6	
	c) 4	d) 8	
x)	How much storage capacity does each stage in a shift register represent		
	a) One bit	b) Two bits	
	c) Four bits	d) Eight bits	