## Working Principle of Digital Logic Model Exam Question paper - 3

	Model Exam Question paper - 3  11th Standard					
	Computer Science	Reg.No.:	$\top$	$\top$		
	er all the questions. lue pen only.			Total	Marks	.40
Tillie . 01.00.	Part-A				10 x 1 :	
1) Which or	ne of the following are called universal gates?				10 / 1	10
	OR, NOT (b) XOR AND XNOR (c) NAND and NOR (d) NAND and AND					
2) Which or	ne of the following gate is called logical inverter?					
	D (b) XOR (c) NOR (d) NOT					
3) NOR gat	e can be replaced by					
_	(b) AND (c) NAND (d) Bubbled AND					
4) The excl	usive OR operator is					
(a) ⊗	(b) $\ominus$ (c) $\odot$ (d) $\oplus$					
5) Which or	ne of the following lists all the values of the Boolean function for each set of values of the variable?					
(a) Trut	ntable (b) Equation (c) Logic circuit (d) Gates					
6) A full add	der addsbinary digits.					
(a) three	e (b) two (c) four (d) five					
7) Which or	ne of the following is an example of sequential circuit?					
(a) Flip-	flop circuit (b) Digital circuit (c) Logical circuit (d) C <mark>ombinati</mark> onal circu <mark>it</mark>					
8) What are	the two states of basic flip-flop?					
(a) True	or False (b) Yes or No (c) Set and Reset (d) True or Reset					
9) Which or	ne of the following are found in digital inte <mark>grated circuits?</mark>					
(a) Arra	ys of variables (b) Arrays of Numbers (c) Arrays of components (d) Arrays of logical gates					
10) If number	er 0 is called					
(a) False	e (b) True (c) gate (d) Nu <mark>mber</mark>					
	flop circuit (b) Digital circuit (c) Logical circuit (d) Combinational circuit  e the two states of basic flip-flop?  or False (b) Yes or No (c) Set and Reset (d) True or Reset  ne of the following are found in digital integrated circuits?  ys of variables (b) Arrays of Numbers (c) Arrays of components (d) Arrays of logical gates  or 0 is called  e (b) True (c) gate (d) Number  Part-B  a logic gate?  AND gate be realized using NOR gate?  a half adder?  a combinational circuit?				10 x 2 :	= 20
11) What is a	logic gate?					
12) How can	AND gate be realized using NOR gate?					
13) What is a	half adder?					
	ynchronous sequential circuit?					
	symbol of AND gate and OR gate.					
	he Universal gate.					
	ic circuit of Full adder.					
20) What is i	ssynchronous sequential circuit.					
∠∪, WilatiSi	Part-C				2 x 5 :	= 10
21) How will	you convert the Boolean $D=(A.B)+\overline{C}$ function into a truth table?				- 13	_0
	the following logic circuit to a boolean equation.					
А	<u> </u>					

В

С

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