Qı	estion No : 1 of 26	Marks: 1 (Budget	ted Time 1 Min)
	onsider the binary number "100101", its 2's complement will be		<u> </u>
			_
			<b>v</b>
An	swer ( Please select your correct option )		
85	100110		
(			
	011011		
(			
	<u>correct</u>		
	100111		
	011010		
0	made By:	Wagar	Siddhu

C	ues	stion No : 2 of 26 Marks: 1 (Budgeted Time 1 Min)	•
	The	values that exceed the specified range can not be correctly represented and are considered as	4
			$\overline{\mathbf{v}}$
	insv	ver ( Please select your correct option )	
		Overflow	
	0	correct	
		Carry	
	0		
		Parity	
	0		
		Sign value	
	0	made By: Wagar Siddl	hu

Question No : 3 of 26	Marks: 1 (Budgeted Time 1 Min)	0
According to Demorgan's theorem:		A
A+B+C=		
		¥
Answer ( Please select your correct option )		
AB.C		
A+BC		
ĀĒC		_
correct		
		_
	Waqar Siddhi	
11246 23.	ander areall	-

Question No : 4 of 26	Marks: 1 (Budgeted Time 1 Min)
If two numbers in BCD representation generate an invalid BCD number then the binary is added to the result	Δ.
	<u> </u>
Answer ( Please select your correct option )	
c 1001	
0110	
o 1111	
1100 Made	By: Waqar Siddhu

Q	ues	tion No : 5 of 26 Marks: 1 (Budgeted Time 1 Min)	•
Ī	The	output of an AND gate is one when	A
			<u>A</u>
			¥
Aı	nsw	ver ( Please select your correct option )	
	0	All of the inputs are one	
		<u>contrect</u>	
24		Any of the input is one	
	0		
		Any of the input is zero	
	0		
		All the inputs are zero	
	0	Made By: Waqar Siddl	14

Qu	uestion No : 6 of 26	Marks: 1 (Budgeted Time 1 Min)	
A	standard SOP form hasterms that have all the variables in the domain of the expression.		<b>A</b>
			¥
An	nswer ( Please select your correct option )		
c	Sum C		
	Product		
(	<u>correct</u>		
	Max		
	Composite		
	made by: U	agar Siddh	U

Qı	Question No : 7 of 26	Marks: 1 (Budgete	ed Time 1 Min)
A	A comparator circuit has multiple inputs and outputs		<u> </u>
			v
Αı	nswer ( Please select your correct option )		
	2		
	3		
	<u>correct</u>		
	4		
1			
	7		
	made By:	III at avait to	G:4416-
	indae by:	wagar.	Juanu

Que	estion No: 8 of 26 Marks:	1 (Budgeted Time 1 Min)	
An	n alternate method of implementing Comparators which allows the Comparators to be easily cascaded without the need for extra logic gates is		
			v
Ansv	swer ( Please select your correct option )		
0	Using a single comparator		
	Using Iterative Circuit based Comparators		
0	correct		
0	Connecting comparators in vertical hierarchy		
0	Extra logic gates are always required.		
	made By: Waq	ar Siddhi	I

Question No: 9 of 26	Marks: 1 (Budgeted Time 1 Min)
The active high and active low inputs of 3-to-8 Decoder are as fol	lows:
	Y
Answer ( Please select your correct option )	
One active-high and the remaining two are active-low.	
	correct
Two active-high and the remaining one is active-low.	
C All active high	
All active low	Made By: Waqar Siddhu

Qu	estion No : 10 of 26	Marks: 1 (Budgete	ed Time 1 Min)
0	DLMC consists of a		<u> </u>
			4
L			
An	iswer ( Please select your correct option )		
	Encoder		
(			
	Decoder		
(			
	Logic Gate		
(			
1	Flip-Flop		
	correct Made By:	Waqar	Siddhu

Qu	uestion No : 11 of 26	Marks: 1 (Budgete	ed Time 1 Min)
Т	he Quad Multiplexer has inputs		<u> </u>
			<u> </u>
			<u> </u>
An	nswer ( Please select your correct option )		
Ш.	4		
	8		
(			
	12		
	16		
(			
	<u>correct</u> <b>made By:</b>	Waqar	<b>51ddhu</b>

Que	estion No : 12 of 26 Marks: 1 (Budgeted Time 1 Min)	0
Th	e carry propagation can be expressed as	
Δ	Place select your execut onion )	<b>V</b>
Ans	wer ( Please select your correct option )	
c	$C_p = AB$	
0	$C_p = A + B$	
0	C <sub>p</sub> =A⊕B	
c	Ç=A+B Made By: Waqar Siddh	U

(	Ques	stion No : 13 of 26 Marks: 1 (Budgeted Time 1 Min)	•
	In th	he binary number "1100.111", the first bit at the right of decimal point has the weight	Δ
			¥
1	Ansv	wer ( Please select your correct option )	
	0	½ (1 divided by 2)	
		1/4 (1 divided by 4)	
	0		
		0	
	0		
	0	Marido Pero Mariano Cadalle	
П		made By: Waqar Siddl	14

Question No : 14 of 26 Marks: 1 (Budgeted Time 1 Min	) 🖃
In the following Karnaugh map, which group has "legal grouping" ?	_
4P	10-21
X $AB$	
00 01 11 10 A	⋾
Answer ( Please select your correct option )	
A	
B	
C manyerparate	
<u>coltect</u>	
made By: Waqar Sidd	hu

Question No : 15 of 26	Marks: 1 (Budgeted	d Time 1 Min) 🔳
In CMOS 5 Volt series, Input voltage for Logic high signal (V <sub>IH</sub> ) is in the range ofvolts.		_
		V
Answer ( Please select your correct option )		
C S.5 to 5 CONTRACT		
4.5 to 5		
O to 5		
0 to 3.5 Made By: 0	Waqar S	iddhu

Q	estion No : 16 of 26 Marks: 1 (Bud	geted Time 1 Min) 🔲
F	rogrammable Array Logic (PAL) has input(s) and output(s).	<u> </u>
Δ	swer ( Please select your correct option )	▼
	Single, multiple	
	Multiple, single	
	Single, single	
	Multiple, multiple  CONTROL  Made By: Waqar	Siddhu

C	)ue:	stion No : 17 of 26 Marks: 1 (Budgeted Time 1 Min)	0
-	An	equivalent ABEL notation of Boolean expression <b>A+B</b> is	A
			7
А	nsv	ver ( Please select your correct option )	
	0	A&B	
	U		
		AIB	
	0		
		A#B	
	C	correct	
	0	A\$B	
Ш		made By: Waqar Siddle	14

Qu	uestion No : 18 of 26	Marks: 1 (Budget	ted Time 1 Min)
S	Which circuit has the following Sum and CarryOut expressions? Sum = A ⊕ B ⊕ C CarryOut = C(A ⊕ B) + AB		<u> </u>
			V
An	nswer ( Please select your correct option )		
c	Half Adder		
	Full Adder		
C	<u>correct</u>		
13	3-bit parallel adder		
	MSI adder cicuit		
	made by: U	hagar	Siddhu

Que	estion No : 19 of 26	Marks: 1 (Budgeted Time 1 Min)
576,565,0	om the truth table below, determine the standard SOP expression.	<u> </u>
Inp A E	outs Output BC X	
0 0 0 0 0 1	01 1	v
Ansv	wer ( Please select your correct option )	
С	$\overline{ABC} + \overline{ABC} + AB\overline{C}$	
0	$AB\overline{C} + A\overline{B}\overline{C} + \overline{AB}C$	
0	$(A+B+\overline{C})(A+\overline{B}+\overline{C})(\overline{A}+\overline{B}+C)$	
c	(Ā+Ē+C)(Ā+B+C)+(A+B+C)  Mede By- 1	Vaqar Siddhu
	Michael 23. C	ander arrester

Que	stion No : 20 of 26 Marks: 1 (Budgeted Time 1 Min)	•
The	Boolean expression for the logic circuit is	150
A B		
C		
1		•
Ansv	wer ( Please select your correct option )	
	AB+CDE	
0		
	(A+B)CDE	_
0	correct	
		_
0	(A+B)+(CDE)	
	(A+B)(CD+E)	
0	Made By: Waqar Siddh	7

Questio	on No : 20 of 26 Marks: 1 (Budgeted Time 1 Min)	•
A [] C D E	>	
Answer	er ( Please select your correct option )	
o A	AB+CDE	
( <i>I</i>	(A+B)CDE	
0	correct	
	A+B)+(CDE)	
0		
0 (4	(A+B)(CD+E)	
	made By: Waqar Siddh	u













