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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question # 2 of 30 (Start time: 10:23:55 PM, 28 December 2020)

Total Marks: 1

_____ have Buffers at the inputs which produce the actual variable and its complement.

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Select the correct option

☐	EPROM
☒	PAL
☐	PLA
☐	GAL

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Question # 1 of 30 (Start time: 02:34:57 PM, 28 December 2020)

Total Marks: 1

In iterative circuit implementation of $A=B$ function, If input A_0 is equal to input B_0 , the ____ gate output in Module 0 is a 1 which is passed on to Module 1 through its Cascading input.

Select the correct option

☐	OR	
☐	XOR	
☐	NOR	
☒	XNOR	←

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Question # 2 of 30 (Start time: 02:35:59 PM, 28 December 2020)

Total Marks: 1

_____ is invalid number of cells in a single group formed by the adjacent cells in K-map

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Select the correct option

☐	2	
☐	8	
☒	12	
☐	16	

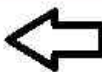
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Question # 28 of 30 (Start time: 02:59:13 PM, 28 December 2020)

Total Marks: 1

The _____ is the slowest and consumes more power.

Select the correct option

☒	Standard TTL	
☐	Schottky TTL	
☐	Advanced Schottky TTL	
☐	Low-Power Schottky TTL	

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Question # 24 of 30 (Start time: 02:56:00 PM, 28 December 2020)

Total Marks: 1

8-bit parallel data can be converted into serial data by using _____ multiplexer

Select the correct option

☐	4-to-2	
☐	4-to-4	
☒	8-to-1	←
☐	8-to-4	

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Question # 9 of 30 (Start time: 10:29:28 PM, 28 December 2020)

Total Marks

The measurable values generally change over a _____.

Select the correct option

☐	Specific period	
☐	Discrete range	
☐	Time	
☒	Continuous range	

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Question # 29 of 30 (Start time: 10:43:53 PM, 28 December 2020)

Total Marks

The Quine-McCluskey method has _____ number of steps.

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Select the correct option

☒

2.

☐

3.

☐

4.

☐

5.

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Question # 8 of 30 (Start time: 10:28:36 PM, 28 December 2020)

Total Marks: 1

For a Standard SOP expression, a _____ is placed in the cell corresponding to the product term (Minterm) present in the expression.

Select the correct option

☐	0	
☒	1	
☐	X (don't care condition)	
☐	Any of given option depending on SOP term.	

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Question # 21 of 30 (Start time: 10:39:19 PM, 28 December 2020)

Total Marks: 1

A _____ can not operate without a memory element.

Select the correct option

☐	cell
☒	counter
☐	clock
☐	unit

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Question # 27 of 30 (Start time: 10:42:58 PM, 28 December 2020)

Total Marks:

The AND Gate performs a logical _____ function

Select the correct option

☐	Addition
☐	Subtraction
☒	Multiplication
☐	Division

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Question # 19 of 30 (Start time: 10:37:55 PM, 28 December 2020)

Total Me

The ANSI/IEEE Standard 754 defines a _____ Single-Precision Floating Point format for binary numbers.

Select the correct option

- | | |
|----------------------------------|--------|
| ☐ | 8-bit |
| ☐ | 16-bit |
| ☒ | 32-bit |
| ☐ | 64-bit |

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Question # 16 of 30 (Start time: 10:35:56 PM, 28 December 2020)

Total Marks: 1

_____ is invalid number of cells in a single group formed by the adjacent cells in K-map

Select the correct option:

☒	2	
☐	8	
☐	12	
☐	16	

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Question # 4 of 30 (Start time: 02:37:46 PM, 28 December 2020)

Total Marks: 1

The below are Integrated Circuit Technologies except _____

Select the correct option

☐	TTL
☐	ECL
☐	PMOS
☒	ETMOS

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Question # 9 of 30 (Start time: 02:43:19 PM, 28 December 2020)

Total Marks: 1

A _____ is converted into a standard POS by using the rule $AA' = 0$.

Select the correct option

[Reload Math Equations](#)

☐	Non-standard SOP
☒	Non-standard POS
☐	Simplified SOP
☐	Simplified POS

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Question # 11 of 30 (Start time: 02:44:46 PM, 28 December 2020)

Total Marks: 1

Boolean algebra is the _____ of Digital Systems.

Select the correct option

☐	Science
☒	Mathematics
☐	Expression
☐	Equation

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Question # 11 of 30 (Start time: 10:30:31 PM, 28 December 2020)

Total Marks: 1

In 16-input multiplexer, the decoder inputs ____ and ____ enable one out of the four multiplexers.

Select the correct option

☐	A, B
☐	B, C
☒	C, D
☐	A, D

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Question # 28 of 30 (Start time: 10:43:13 PM, 28 December 2020)

Total Marks: 1

The Programmable Array Logic (PAL) has _____ AND array and a _____ OR array.

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Select the correct option

- | | | |
|----------------------------------|----------------------------|--|
| ☐ | Fixed, Programmable | |
| ☒ | Programmable, Fixed | |
| ☐ | Fixed, Fixed | |
| ☐ | Programmable, Programmable | |

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Question # 6 of 30 (Start time: 10:26:53 PM, 28 December 2020)

Total Mark

A variable can have a ____ value.

Select the correct option

☐	0
☐	1
☒	0 or 1
☐	0 and 1

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Question # 25 of 30 (Start time: 10:41:52 PM, 28 December 2020)

Total Marks: 1

The OR Gate performs a Boolean _____ function

Select the correct option

- | | |
|----------------------------------|----------------|
| ☒ | Addition |
| ☐ | Subtraction |
| ☐ | Multiplication |
| ☐ | Division |

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Question # 12 of 30 (Start time: 10:31:09 PM, 28 December 2020)

Total Marks: 1

The boolean expression $X = AB + CD$ represents

Select the correct option

- | | | |
|----------------------------------|------------------------|--|
| ☐ | two ORs ANDed together | |
| ☐ | a 4-input AND gate | |
| ☒ | two ANDs ORed together | |
| ☐ | an exclusive-Or | |

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Question # 15 of 30 (Start time: 02:48:16 PM, 28 December 2020)

Total Marks: 1

A 5-variable karnaugh map has

Select the correct option

☐	Eight cells
☐	Sixteen cells
☒	Thirty two cells
☐	Sixty four cells

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Question # 18 of 30 (Start time: 10:37:29 PM, 28 December 2020)

Total Marks: 1

Inputs		Output
A	B	F
0	0	0
0	1	1
1	0	1
1	1	1

Select the correct option

- ☐ AND
- ☐ NOT
- ☒ OR
- ☐ XOR

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Question # 30 of 30 (Start time: 10:45:03 PM, 28 December 2020)

Total Marks: 1

In 16-bit ALU, the Carry Out 16 is generated only when ALU3 has received Carry In ____.

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Select the correct option

☐	2	
☐	4	
☐	8	
☒	12	

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Question # 3 of 30 (Start time: 02:37:04 PM, 28 December 2020)

Total Marks: 1

The GAL16V8 has eight _____ each connected to eight product terms.

Select the correct option

☒	OLMCs
☐	SOP
☐	POS
☐	cells

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Question # 26 of 30 (Start time: 02:57:25 PM, 28 December 2020)

Total Marks: 1

A standard SOP form has _____ terms that have all the variables in the domain of the expression.

Select the correct option

☐	Sum
☒	Product
☐	Max
☐	Composite

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Question # 22 of 30 (Start time: 02:54:38 PM, 28 December 2020)

Total Marks: 1

Caveman number system is Base _____ number system

Select the correct option

- | | |
|----------------------------------|----|
| ☐ | 2 |
| ☒ | 5 |
| ☐ | 10 |
| ☐ | 16 |

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Question # 26 of 30 (Start time: 10:42:10 PM, 28 December 2020)

Total Marks: 1

The OLMC of the GAL16V8 is similar to the OLMC of the _____ with some enhancements.

Select the correct option

☒	GAL22V10
☐	GAL16V10
☐	GAL14V10
☐	GAL12V10

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Question # 22 of 30 (Start time: 10:39:56 PM, 28 December 2020)

Total Marks: 1

A _____ attached to the Select inputs of the Demultiplexer routes the incoming serial bits to successive outputs where each bit is stored.

Select the correct option



memory



counter



buffer



data

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Question # 6 of 30 (Start time: 02:39:50 PM, 28 December 2020)

Total Marks: 1

The Boolean expression $(A + B' + C)$ is:

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Select the correct option

☒	a sum term	/
☐	a literal term	/
☐	a product term	
☐	a minterm	

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Question # 17 of 30 (Start time: 02:49:31 PM, 28 December 2020)

Total Marks: 1

Tri-State Buffer is a _____ gate with a control line that disconnects the output from the input.

Select the correct option

☐	OR
☐	AND
☐	NAND
☒	NOT

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Question # 13 of 30 (Start time: 02:46:36 PM, 28 December 2020)

Total Marks: 1

In 8-input multiplexer, the two outputs are connected through a/an _____ gate.

Select the correct option

☐	AND
☒	OR
☐	NOT
☐	NOR

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Question # 14 of 30 (Start time: 02:47:12 PM, 28 December 2020)

Total Marks: 1

Which of the following is the MSI version of the Look-Ahead Carry Generator, which provides identical inputs and outputs except for the C4 output?

Select the correct option

- | | |
|----------------------------------|---------|
| ☐ | 74XX180 |
| ☐ | 74XX181 |
| ☒ | 74XX182 |
| ☐ | 74XX183 |

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Question # 30 of 30 (Start time: 03:00:20 PM, 28 December 2020)

Total Marks: 1

When the error condition is not detected in BCD adder, the circuit output is 0 and the 2nd Adder input B is set to _____.

Select the correct option

☒	0000	/
☐	0001	/
☐	0010	/
☐	0011	/

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Question # 16 of 30 (Start time: 02:49:06 PM, 28 December 2020)

Total Marks: 1

The 4-variable Karnaugh Map (K-Map) has _____ cells for min or max terms

Select the correct option

☐	4	
☐	8	
☐	12	
☒	16	

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Question # 19 of 30 (Start time: 02:51:33 PM, 28 December 2020)

Total Marks: 1

In the Repeated-Division method, the Decimal number to be converted is divided by the _____.

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Select the correct option

☒	Base number
☐	2
☐	Maximum range value of target number system
☐	Minimum range value of target number system

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Question # 15 of 30 (Start time: 10:33:57 PM, 28 December 2020)

Total Marks: 1

Adding two octal numbers "36" and "71" result in _____

Select the correct option

- | | | |
|----------------------------------|-----|--|
| ☐ | 213 | |
| ☐ | 123 | |
| ☒ | 127 | |
| ☐ | 345 | |

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Question # 4 of 30 (Start time: 10:25:32 PM, 28 December 2020)

Total Marks: 1

The expression $F=A+B+C$ describes the operation of three bits ____ Gate.

Select the correct option

☒	OR
☐	AND
☐	NOT
☐	NAND

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Question # 23 of 30 (Start time: 02:55:22 PM, 28 December 2020)

Total Marks: 1

In 16-bit ALU, the Carry Out 16 is generated only when ALU3 has received Carry In ____.

Select the correct option

☐	2	
☐	4	
☐	8	
☒	12	

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Question # 29 of 30 (Start time: 02:59:46 PM, 28 December 2020)

Total Marks: 1

A SOP expression having a domain of 3 variables will have a truth table having ____ combinations of inputs and corresponding output values.

Select the correct option

☒	2	
☐	4	
☐	8	
☐	16	

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Question # 10 of 30 (Start time: 02:44:20 PM, 28 December 2020)

Total Marks: 1

The Quine-McCluskey method has _____ number of steps.

Select the correct option

☒	2	
☐	3	
☐	4	
☐	5	

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Question # 5 of 30 (Start time: 02:39:11 PM, 28 December 2020)

Total Marks: 1

To determine the seven expressions for each of the seven outputs in 7-segment display, seven ____-variable Karnaugh maps are used.

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Select the correct option

☐	3	
☒	4	
☐	5	
☐	2	

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Question # 13 of 30 (Start time: 10:31:42 PM, 28 December 2020)

Total Marks:

If the number of samples that are collected is reduced by half, the reconstructed signal will be _____ from/to the original.

Select the correct option

☒	Different
☐	Same
☐	Equal
☐	Opposite

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Question # 25 of 30 (Start time: 02:56:27 PM, 28 December 2020)

Total Marks: 1

The Binary number 1011.101 has an Integer part represented by _____ and a fraction part _____ separated by a decimal point.

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Select the correct option

- | | | |
|----------------------------------|-----------|--|
| ☒ | 1011, 101 | |
| ☐ | 101, 1011 | |
| ☐ | 101, 1101 | |
| ☐ | 10111, 11 | |

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Question # 20 of 30 (Start time: 10:38:49 PM, 28 December 2020)

Total Marks: 2

_____ Device dissipate varying amount of power depending upon the frequency of operation.

Select the correct option

☐	TTL
☒	CMOS
☐	Storage
☐	Peripheral

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