

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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WHATSAPP& CALL-03087122922

TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

We Deal All Kind of VU Project
(PHP, .NET, ANDROID, PYTHON)

MADE AND SOLVED BY HADI

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.



WhatsApp:03087122922



FACEBOOK ID: <https://www.facebook.com/hadipastpapers/>

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

<input type="radio"/>	EPROM	/
<input checked="" type="radio"/>	PAL	/
<input type="radio"/>	PLA	/
<input type="radio"/>	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 A0 is equal to input B0, the ____ gate output in Module 0 is a 1 which is passed on to Module 1 through its Cascading input.

Select the correct option

<input type="radio"/>	OR	
<input type="radio"/>	XOR	
<input type="radio"/>	NOR	
<input checked="" type="radio"/>	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

- | | | | |
|----------------------------------|------------------------|---|----|
| <input checked="" type="radio"/> | Standard TTL | ↑ | // |
| <input type="radio"/> | Schottky TTL | | // |
| <input type="radio"/> | Advanced Schottky TTL | | // |
| <input type="radio"/> | 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

<input type="radio"/>	Specific period	//
<input type="radio"/>	Discrete range	//
<input type="radio"/>	Time	
<input checked="" type="radio"/>	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

- | | | |
|----------------------------------|--|---|
| <input type="radio"/> | 0 | / |
| <input checked="" type="radio"/> | 1 | / |
| <input type="radio"/> | X (don't care condition) | / |
| <input type="radio"/> | 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

<input type="radio"/>	cell	
<input checked="" type="radio"/>	counter	
<input type="radio"/>	clock	
<input type="radio"/>	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

<input type="radio"/>	Addition
<input type="radio"/>	Subtraction
<input checked="" type="radio"/>	Multiplication
<input type="radio"/>	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

<input type="radio"/>	8-bit
<input type="radio"/>	16-bit
<input checked="" type="radio"/>	32-bit
<input type="radio"/>	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

- | | | |
|----------------------------------|----|----|
| <input checked="" type="radio"/> | 2 | // |
| <input type="radio"/> | 8 | // |
| <input type="radio"/> | 12 | |
| <input type="radio"/> | 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

<input type="radio"/>	TTL
<input type="radio"/>	ECL
<input type="radio"/>	PMOS
<input checked="" type="radio"/>	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 $AA^T = 0$.

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Non-standard SOP
<input checked="" type="radio"/>	Non-standard POS
<input type="radio"/>	Simplified SOP
<input type="radio"/>	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.

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Select the correct option

<input type="radio"/>	Science	//
<input checked="" type="radio"/>	Mathematics	//
<input type="radio"/>	Expression	//
<input type="radio"/>	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

- | | | |
|----------------------------------|------|----|
| <input type="radio"/> | A, B | // |
| <input type="radio"/> | B, C | // |
| <input checked="" type="radio"/> | C, D | |
| <input type="radio"/> | 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

- | | | |
|----------------------------------|----------------------------|---|
| <input type="radio"/> | Fixed, Programmable | / |
| <input checked="" type="radio"/> | Programmable, Fixed | / |
| <input type="radio"/> | Fixed, Fixed | / |
| <input type="radio"/> | 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

<input type="radio"/>	0	//
<input type="radio"/>	1	//
<input checked="" type="radio"/>	0 or 1	
<input type="radio"/>	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

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Select the correct option

- | | |
|----------------------------------|----------------|
| <input checked="" type="radio"/> | Addition |
| <input type="radio"/> | Subtraction |
| <input type="radio"/> | Multiplication |
| <input type="radio"/> | 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

- | | | |
|----------------------------------|------------------------|----|
| <input type="radio"/> | two ORs ANDed together | // |
| <input type="radio"/> | a 4-input AND gate | // |
| <input checked="" type="radio"/> | two ANDs ORed together | // |
| <input type="radio"/> | 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

- | | |
|----------------------------------|------------------|
| <input type="radio"/> | Eight cells |
| <input type="radio"/> | Sixteen cells |
| <input checked="" type="radio"/> | Thirty two cells |
| <input type="radio"/> | 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

- | | | |
|----------------------------------|----|----|
| <input type="radio"/> | 2 | // |
| <input type="radio"/> | 4 | // |
| <input type="radio"/> | 8 | |
| <input checked="" type="radio"/> | 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

- | | | |
|----------------------------------|-------|----|
| <input checked="" type="radio"/> | OLMCs | // |
| <input type="radio"/> | SOP | // |
| <input type="radio"/> | POS | // |
| <input type="radio"/> | 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.

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Select the correct option

<input type="radio"/>	Sum	//
<input checked="" type="radio"/>	Product	//
<input type="radio"/>	Max	
<input type="radio"/>	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

- | | | |
|----------------------------------|----|----|
| <input type="radio"/> | 2 | // |
| <input checked="" type="radio"/> | 5 | // |
| <input type="radio"/> | 10 | |
| <input type="radio"/> | 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

- | | |
|----------------------------------|----------|
| <input checked="" type="radio"/> | GAL22V10 |
| <input type="radio"/> | GAL16V10 |
| <input type="radio"/> | GAL14V10 |
| <input type="radio"/> | 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

<input type="radio"/>	memory	//
<input checked="" type="radio"/>	counter	//
<input type="radio"/>	buffer	
<input type="radio"/>	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

Select the correct option

- | | | |
|----------------------------------|----------------|----|
| <input checked="" type="radio"/> | a sum term | // |
| <input type="radio"/> | a literal term | // |
| <input type="radio"/> | a product term | |
| <input type="radio"/> | 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

- | | | |
|----------------------------------|------|----|
| <input type="radio"/> | OR | // |
| <input type="radio"/> | AND | // |
| <input type="radio"/> | NAND | // |
| <input checked="" type="radio"/> | 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

<input type="radio"/>	AND	
<input checked="" type="radio"/>	OR	
<input type="radio"/>	NOT	
<input type="radio"/>	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

- | | | |
|----------------------------------|---------|----|
| <input type="radio"/> | 74XX180 | // |
| <input type="radio"/> | 74XX181 | // |
| <input checked="" type="radio"/> | 74XX182 | // |
| <input type="radio"/> | 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

- | | | |
|----------------------------------|------|---|
| <input checked="" type="radio"/> | 0000 | / |
| <input type="radio"/> | 0001 | / |
| <input type="radio"/> | 0010 | / |
| <input type="radio"/> | 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

- | | | |
|----------------------------------|----|----|
| <input type="radio"/> | 4 | // |
| <input type="radio"/> | 8 | // |
| <input type="radio"/> | 12 | // |
| <input checked="" type="radio"/> | 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

- | | | |
|----------------------------------|---|----|
| <input checked="" type="radio"/> | Base number | // |
| <input type="radio"/> | 2 | // |
| <input type="radio"/> | Maximum range value of target number system | // |
| <input type="radio"/> | 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

- | | | |
|----------------------------------|-----|---|
| <input type="radio"/> | 213 | / |
| <input type="radio"/> | 123 | / |
| <input checked="" type="radio"/> | 127 | / |
| <input type="radio"/> | 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.

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Select the correct option

<input checked="" type="radio"/>	OR	//
<input type="radio"/>	AND	//
<input type="radio"/>	NOT	
<input type="radio"/>	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

- | | | |
|----------------------------------|----|----|
| <input type="radio"/> | 2 | // |
| <input type="radio"/> | 4 | // |
| <input type="radio"/> | 8 | // |
| <input checked="" type="radio"/> | 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

<input checked="" type="radio"/>	2	
<input type="radio"/>	4	
<input type="radio"/>	8	
<input type="radio"/>	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

- | | | |
|----------------------------------|---|----|
| <input type="radio"/> | 3 | // |
| <input checked="" type="radio"/> | 4 | // |
| <input type="radio"/> | 5 | // |
| <input type="radio"/> | 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

<input checked="" type="radio"/>	Different	//
<input type="radio"/>	Same	//
<input type="radio"/>	Equal	//
<input type="radio"/>	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

- | | | |
|----------------------------------|-----------|----|
| <input checked="" type="radio"/> | 1011, 101 | // |
| <input type="radio"/> | 101, 1011 | // |
| <input type="radio"/> | 101, 1101 | // |
| <input type="radio"/> | 10111, 11 | // |

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

Total Marks: 1

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

Select the correct option

- | | | |
|----------------------------------|------------|----|
| <input type="radio"/> | TTL | // |
| <input checked="" type="radio"/> | CMOS | // |
| <input type="radio"/> | Storage | // |
| <input type="radio"/> | Peripheral | // |

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