

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
EMAIL-hadirajputofficial@gmail.com
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 No : 1 of 26

Marks: 1 (Budgeted Time 1 Min)

$$(A+B)(A+C) = \underline{\hspace{2cm}}$$

Answer (Please select your correct option)

B+C

A+BC

AB+C

AC+B

correct



A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
EMAIL:hadirajputofficial@gmail.com
WHATSAPP& CALL:03087122922

MADE BY HADI

Email:hadirajputofficial@gmail.com Whatsapp:03087122922(Team Hadi Lahore)

Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

Excess-8 code assigns _____ to "-8"

Answer (Please select your correct option)

1110

1100

1000

0000

correct

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

The output of the expression $F=A.B.C$ will be Logic _____ when $A=1, B=0, C=1$.

Answer (Please select your correct option)

- Undefined
- One
- Zero
- No Output as input is invalid.

correct



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122922 (Team Hadi Lahore)

Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

The cell marked 6 in 4-variable K-Map represent minterm 6 or the maxterm 6 having the following binary value of variables A, B, C and D.

Answer (Please select your correct option)

A=1, B=1, C=0, D=0

A=0, B=1, C=1, D=0

A=0, B=0, C=1, D=1

A=1, B=0, C=0, D=1



correct

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
EMAIL: hadirajputofficial@gmail.com
WHATSAPP & CALL: 03087122922

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

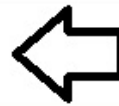
A comparator circuit has multiple inputs and _____ outputs

Answer (Please select your correct option)

2

3

correct



4

7

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

The output $A < B$ is set to 1 when the input combinations is _____

Answer (Please select your correct option)

A=10, B=01

A=11, B=01

A=01, B=01

A=01, B=10

correct



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

The _____ Encoder is used as a keypad encoder.

Answer (Please select your correct option)

- 2-to-8 encoder
- 4-to-16 encoder
- BCD-to-Decimal
- Decimal-to-BCD Priority

correct



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

Using multiplexer as parallel to serial converter requires _____ connected to the multiplexer

Answer (Please select your correct option)

A parallel to serial converter circuit

correct



A counter circuit

A BCD to Decimal decoder

A 2-to-8 bit decoder

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
EMAIL: hadirajputofficial@gmail.com
WHATSAPP & CALL: 03087122922

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

The four outputs of two 4-input multiplexers, connected to form a 16-input multiplexer, are connected together through a 4-input _____ gate

Answer (Please select your correct option)

AND

OR

correct



NAND

XOR

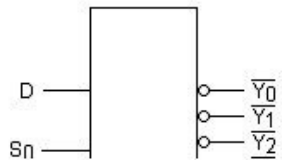
MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

The device shown here is most likely a _____



Answer (Please select your correct option)

- Comparator
- Multiplexer
- Demultiplexer
- Parity generator

correct



A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
EMAIL: hadirajputofficial@gmail.com
WHATSAPP & CALL: 03087122922

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

GAL is an acronym for _____.

Answer (Please select your correct option)

Generic Analysis Logic

Giant Array Logic

General Array Logic

Generic Array Logic



correct

MADE BY HADI

Email: hadiraiputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

In the binary number "10011" the weight of the most significant digit is ____

Answer (Please select your correct option)

2^4 (2 raise to power 4)

correct

2^3 (2 raise to power 3)

2^0 (2 raise to power 0)

2^1 (2 raise to power 1)

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
EMAIL: hadirajputofficial@gmail.com
WHATSAPP & CALL: 03087122922

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

The output of the expression $F=A+B+C$ will be Logic _____ when $A=0, B=1, C=1$.

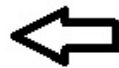
Answer (Please select your correct option)

Undefined

One

Zero

10 (binary)



correct

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following simplification method is intended to be used for Boolean expressions having more than four variables?

Answer (Please select your correct option)

Boolean Algebra and rules

Karnaugh Map

Quine-McCluskey



correct

Demorgan's Theorem

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122922 (Team Hadi Lahore)

Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

A particular half-adder has _____ inputs and _____ output(s).

Answer (Please select your correct option)

3, 1

3, 2

2, 1

2, 2

correct

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

A quantity having continuous values is a/an _____ quantity.

Answer (Please select your correct option)

digital

binary

analog

natural

correct



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

Which one of the following expressions is an example of Commutative Law for Multiplication?

Answer (Please select your correct option)

$AB+C = A+BC$

$A(B+C) = B(A+C)$

$AB=BA$

correct



$A+B=B+A$

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

When four 1's are taken as a group on a Karnaugh map, the number of variables eliminated from the output expression is/are _____

Answer (Please select your correct option)

1

2

3

4

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

Identify the Boolean expression that is in standard POS form.

Answer (Please select your correct option)

$(A + \bar{B})(\bar{A} + B + \bar{C})$

correct



A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
EMAIL: hadirajputofficial@gmail.com
WHATSAPP & CALL: 03087122922

$\bar{A}\bar{B}C + A\bar{B}C$

$(A + \bar{B} + \bar{C})(A + B + C)$

$(A + B)(A + C)$

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

Simplifying POS (Product of sum) expression requires the grouping of _____

Answer (Please select your correct option)

0s correct ←

1s

Don't care

Both 0s and 1s

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

How many input and output bits do a Half-Adder contain?

Answer ([Please click here to Add Answer](#))



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

Draw the Truth-Table of NAND based S-R Latch.

Answer ([Please click here to Add Answer](#))



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

Draw the block diagram of 4-bit BCD Adder.

Answer ([Please click here to Add Answer](#))



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Tri-state buffer control input can be connected in four different ways. Name any three of them.

Answer ([Please click here to Add Answer](#))



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Simplify the following Boolean expressions, using Boolean Algebraic rules

- $(A+B)(A+B')$
- $(A+B)'(A'+B)'$

Answer ([Please click here to Add Answer](#))



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122922 (Team Hadi Lahore)

Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

Multiplexers can be used as a "Logic Function Generator". Draw only circuit diagram and function table based on three variables.

Answer ([Please click here to Add Answer](#))



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

HADI VU PAST PAPER

WE DEAL ALL KIND OF VU PROJECT
(PHP, ANDROID, PYTHON)

DEAR STUDENTS

ARE YOU LOOKING
FOR ASSISTANCE

- 1) ASSIGNMENTS
- 2) QUIZZES
- 3) GDB
- 4) GRAND QUIZZES

We Provide, You Solution
of VU Academic Activities
include Assignments,
Quizzes, GDBs, Grand Quizzes
If You Need Help in Services
Kindly inform us.

**TEAM HADI
(VU LAHORE)**



TEAM HADI
(VU LAHORE)



#PAID_TASK

CONTACT US

CALL & WHATSAPP

0308-7122922