



Grand Quiz Spring 2021

Subject Code CS302 lecture 1 to 22

Solved By Riz Mughal



Sialkot,
Punjab Pakistan



Rizwanqadeer848@gmail.com



<https://www.facebook.com/groups/923887914750307>



<https://www.youtube.com/channel/UCINsFwDiB62SValCcPDZbRQ/playlists>

Dear Viewers:

I'm providing 100% correct quiz solution. You can visit my YouTube channel and get more information about all other subjects' quizzes and final year project (CS619).


RIZ MUGHAL (SQA ENGINEER)

CS302:Grand Quiz

Question # 1 of 30 (Start time: 09:12:18 AM, 30 June 2021)

_____ and _____ are the steps of the Quine-McCluskey.

Select the correct option

- | | |
|----------------------------------|---|
| <input type="radio"/> | Draw a table and make groups. |
| <input type="radio"/> | Write binary codes and write SOP. |
| <input checked="" type="radio"/> | Find prime implicants and select minimal set of prime implicants. |
| <input type="radio"/> | Write binary codes and write POS. |
- 

CS302:Grand Quiz

Question # 2 of 30 (Start time: 09:12:50 AM, 30 June 2021)

CMOS technology is characterized by low power dissipation with ____ switching speeds.

Select the correct option

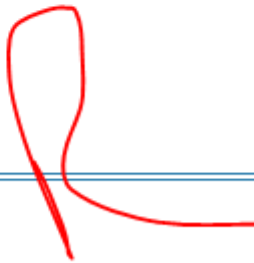
- | | |
|----------------------------------|---------|
| <input type="radio"/> | Average |
| <input checked="" type="radio"/> | Slow |
| <input type="radio"/> | Medium |
| <input type="radio"/> | Fast |
- R*

CS302:Grand Quiz

Question # 3 of 30 (Start time: 09:13:10 AM, 30 June 2021)

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

Select the correct option


- | | |
|----------------------------------|-----|
| <input type="radio"/> | 213 |
| <input checked="" type="radio"/> | 127 |
| <input type="radio"/> | 345 |
| <input type="radio"/> | 123 |
- 

CS302:Grand Quiz

Question # 4 of 30 (Start time: 09:14:08 AM, 30 June 2021)

The range of Excess-8 code is from _____ to _____

Select the correct option


- | | |
|----------------------------------|----------|
| <input type="radio"/> | -9 to +8 |
| <input type="radio"/> | +9 to -8 |
| <input checked="" type="radio"/> | +7 to -8 |
| <input type="radio"/> | +8 to -7 |
- 

CS302:Grand Quiz

Question # 5 of 30 (Start time: 09:14:26 AM, 30 June 2021)

The Decimal-to-BCD Encoder has _____ outputs

Select the correct option


- | | |
|----------------------------------|----|
| <input type="radio"/> | 16 |
| <input type="radio"/> | 10 |
| <input checked="" type="radio"/> | 4 |
| <input type="radio"/> | 2 |
- 

CS302:Grand Quiz

Question # 6 of 30 (Start time: 09:14:51 AM, 30 June 2021)

Gray code of 8 is:

Select the correct option

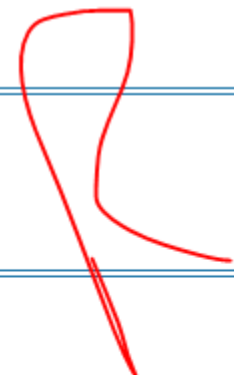
- | | |
|----------------------------------|------|
| <input type="radio"/> | 0000 |
| <input type="radio"/> | 1000 |
| <input type="radio"/> | 0100 |
| <input checked="" type="radio"/> | 1100 |
- 

Question # 7 of 30 (Start time: 09:15:21 AM, 30 June 2021)

_____uses E2CMOS technology which is Electrically Erasable CMOS instead of Bipolar technology and fusible links.

Select the correct option

<input type="radio"/>	PLA
<input type="radio"/>	PAL
<input type="radio"/>	PROM
<input checked="" type="radio"/>	GAL

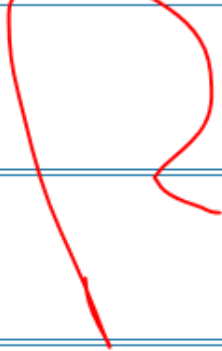


Question # 8 of 30 (Start time: 09:15:38 AM, 30 June 2021)

Total Ma

Suppose we want to transmit the data "10001101", and an "Even-Parity" bit scheme is used to detect errors, the parity bit added to this data will be _

Select the correct option


- | | |
|----------------------------------|--|
| <input type="radio"/> | Parity bit is not needed in this case. |
| <input type="radio"/> | Both "0" and "1" can be used |
| <input checked="" type="radio"/> | "0" |
| <input type="radio"/> | "1" |
- 

CS302:Grand Quiz

Question # 9 of 30 (Start time: 09:15:55 AM, 30 June 2021)

System having memory elements are called _____ circuits.

Select the correct option

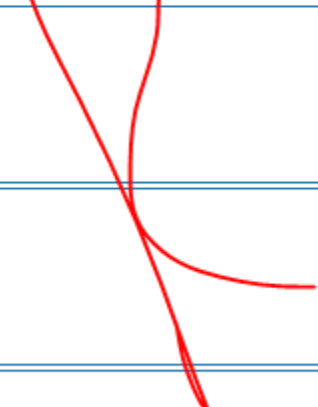
- | | |
|----------------------------------|---------------|
| <input type="radio"/> | Simplex |
| <input type="radio"/> | Combinational |
| <input checked="" type="radio"/> | Sequential |
| <input type="radio"/> | Quadrantal |
- 

CS302:Grand Quiz

Question # 10 of 30 (Start time: 09:16:15 AM, 30 June 2021)

Consider 7-segment display and write which segments will be ON for digit 1.

Select the correct option

- | | |
|----------------------------------|-------|
| <input checked="" type="radio"/> | b, c |
| <input type="radio"/> | a, b |
| <input type="radio"/> | a,b,c |
| <input type="radio"/> | b,c,d |
- 

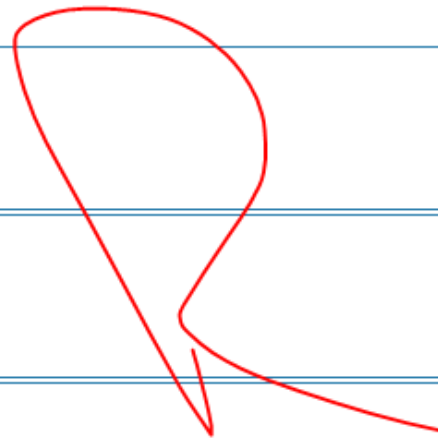
Question # 11 of 30 (Start time: 09:16:33 AM, 30 June 2021)

Total Marks: 1

Which logical gate is used to connect the two active-low enable inputs of the two 4-input multiplexers to form the C input of the 8-input multiplexer?

Select the correct option

- OR gate
- XOR gate
- AND gate
- NOT gate

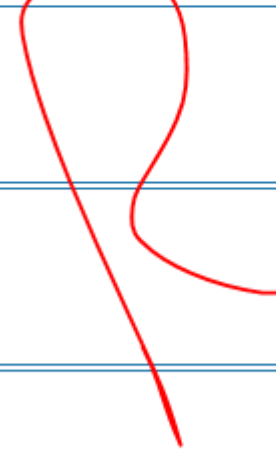


CS302:Grand Quiz

Question # 12 of 30 (Start time: 09:16:50 AM, 30 June 2021)

_____ single digit BCD Adders can be cascaded together to form a 2-digit BCD Adder.

Select the correct option

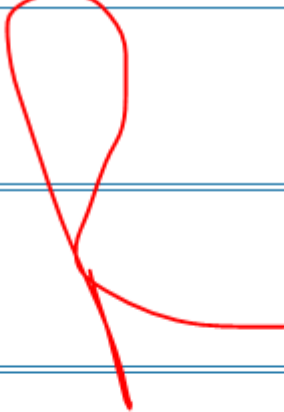
- | | |
|----------------------------------|-------|
| <input type="radio"/> | Three |
| <input checked="" type="radio"/> | Two |
| <input type="radio"/> | One |
| <input type="radio"/> | Four |
- 

CS302:Grand Quiz

Question # 13 of 30 (Start time: 09:17:12 AM, 30 June 2021)

A multiplexer circuit has _____ input(s) and _____ output(s).

Select the correct option

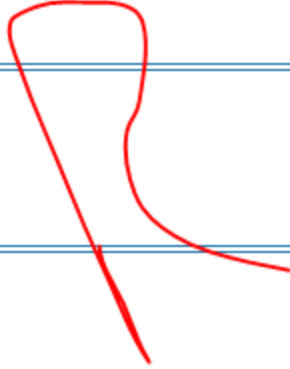
- | | |
|----------------------------------|--------------------|
| <input type="radio"/> | Single, single |
| <input type="radio"/> | Single, multiple |
| <input checked="" type="radio"/> | Multiple, single |
| <input type="radio"/> | Multiple, multiple |
- 

CS302:Grand Quiz

Question # 14 of 30 (Start time: 09:17:27 AM, 30 June 2021)

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

Select the correct option

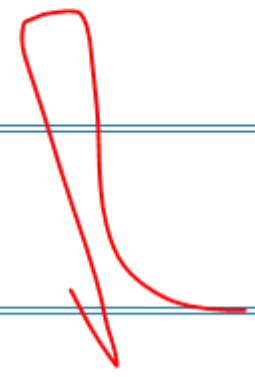
- | | |
|----------------------------------|------|
| <input checked="" type="radio"/> | C, D |
| <input type="radio"/> | A, D |
| <input type="radio"/> | B, C |
| <input type="radio"/> | A, B |
- 

CS302:Grand Quiz

Question # 15 of 30 (Start time: 09:17:43 AM, 30 June 2021)

The ABEL symbol for "OR" operation is

Select the correct option


- | | |
|----------------------------------|----|
| <input type="radio"/> | \$ |
| <input type="radio"/> | ! |
| <input checked="" type="radio"/> | # |
| <input type="radio"/> | & |
- 

CS302:Grand Quiz

Question # 16 of 30 (Start time: 09:17:58 AM, 30 June 2021)

_____ come in different configurations they are identified by unique number

Select the correct option

- | | |
|----------------------------------|-------|
| <input type="radio"/> | GAL |
| <input type="radio"/> | PLAs |
| <input type="radio"/> | EPROM |
| <input checked="" type="radio"/> | PALs |
- 


CS302:Grand Quiz

Question # 17 of 30 (Start time: 09:18:14 AM, 30 June 2021)

A' is written in ABEL as_____.

Select the correct option

<input type="radio"/>	@A
<input checked="" type="radio"/>	!A
<input type="radio"/>	\$A
<input type="radio"/>	#A




CS302:Grand Quiz

Question # 18 of 30 (Start time: 09:18:30 AM, 30 June 2021)

Which of the following is the hexadecimal equivalent of 28?

Select the correct option

<input type="radio"/>	1A
<input checked="" type="radio"/>	1C
<input type="radio"/>	1D
<input type="radio"/>	1B

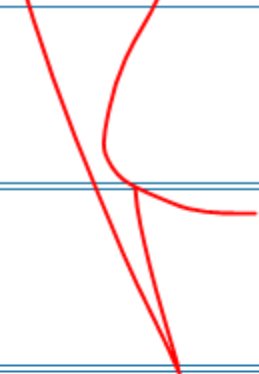


CS302:Grand Quiz

Question # 19 of 30 (Start time: 09:18:55 AM, 30 June 2021)

TTL based devices work with a dc supply of ____ Volts

Select the correct option

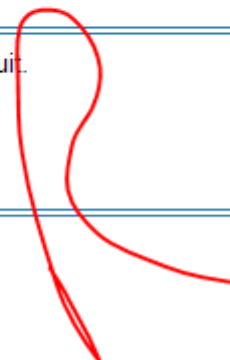
- | | |
|----------------------------------|-----|
| <input type="radio"/> | +3 |
| <input checked="" type="radio"/> | +5 |
| <input type="radio"/> | +10 |
| <input type="radio"/> | 3.3 |
- 

CS302:Grand Quiz

Question # 20 of 30 (Start time: 09:19:19 AM, 30 June 2021)

Which one is true

Select the correct option

- | | |
|----------------------------------|--|
| <input checked="" type="radio"/> | Power consumption of TTL is higher than CMOS |
| <input type="radio"/> | Power consumption of both CMOS and TTL depends on no. of gates in circuit. |
| <input type="radio"/> | Both TTL and CMOS have same power consumption |
| <input type="radio"/> | Power consumption of CMOS is higher than TTL |
- 

Question # 21 of 30 (Start time: 09:19:35 AM, 30 June 2021)

In 8-input multiplexer, when ___ is set to 0, the first multiplexer is selected allowing its inputs 1C0, 1C1, 1C2 and 1C3 to be selected.

Select the correct option

- B
- C
- D
- A

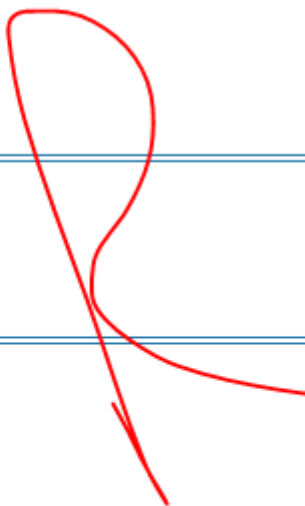
R

CS302:Grand Quiz

Question # 22 of 30 (Start time: 09:19:50 AM, 30 June 2021)

The Boolean expression $(AB'CD')$ is _____

Select the correct option


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

Question # 23 of 30 (Start time: 09:20:04 AM, 30 June 2021)

When two or more sum terms are multiplied by Boolean multiplication, the result is a _____ expression.

Select the correct option

<input type="radio"/>	SOP
<input type="radio"/>	Boolean
<input checked="" type="radio"/>	POS



CS302:Grand Quiz

Question # 24 of 30 (Start time: 09:20:19 AM, 30 June 2021)

OLMC stands for _____.

Select the correct option

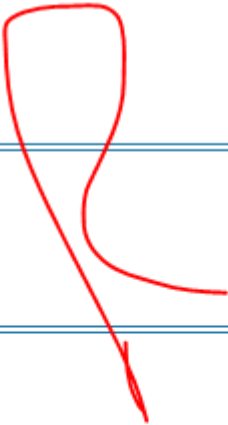
- | | |
|----------------------------------|---------------------------|
| <input checked="" type="radio"/> | Output Logic Macro Cells |
| <input type="radio"/> | Output Logic Micro Cells |
| <input type="radio"/> | Ordered Logic Macro Cells |
| <input type="radio"/> | Ordered Logic Micro Cells |

CS302:Grand Quiz

Question # 25 of 30 (Start time: 09:20:36 AM, 30 June 2021)

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

Select the correct option


- | | |
|----------------------------------|----|
| <input type="radio"/> | 8 |
| <input type="radio"/> | 4 |
| <input checked="" type="radio"/> | 12 |
| <input type="radio"/> | 2 |
- 

CS302:Grand Quiz

Question # 26 of 30 (Start time: 09:20:51 AM, 30 June 2021)

2's complement of 5 is

Select the correct option

- | | |
|----------------------------------|------|
| <input type="radio"/> | 0101 |
| <input checked="" type="radio"/> | 1011 |
| <input type="radio"/> | 1100 |
| <input type="radio"/> | 1101 |
- 

CS302:Grand Quiz

Question # 27 of 30 (Start time: 09:21:07 AM, 30 June 2021)

A source file that is created in ABEL has _____ sections.


Select the correct option

- | | |
|----------------------------------|-------|
| <input type="radio"/> | five |
| <input type="radio"/> | four |
| <input checked="" type="radio"/> | three |
| <input type="radio"/> | two |
- 

Question # 28 of 30 (Start time: 09:21:24 AM, 30 June 2021)

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

Select the correct option

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

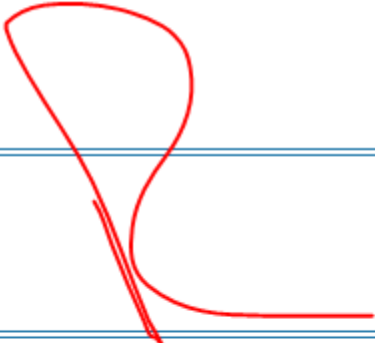
CS302:Grand Quiz

Question # 29 of 30 (Start time: 09:21:41 AM, 30 June 2021)

The _____ select input(s) of the two 4-input multiplexers are common in Dual 4-input multiplexer.

Select the correct option

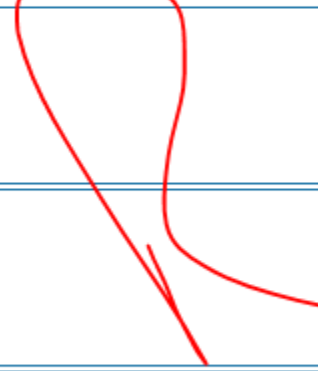
<input type="radio"/>	Three
<input checked="" type="radio"/>	Two
<input type="radio"/>	Four
<input type="radio"/>	One



Question # 30 of 30 (Start time: 09:22:00 AM, 30 June 2021)

In the 32-bit Single Precision Floating Point format, the exponent value _____ is reserved to represent 0 exponents.

Select the correct option

- | | |
|----------------------------------|------|
| <input checked="" type="radio"/> | 0 |
| <input type="radio"/> | 0000 |
| <input type="radio"/> | 000 |
| <input type="radio"/> | 00 |
- 



Thank you for watching

Please share it with your friends 😊

RIZ MUGHAL (SQA ENGINEER)

