CS302 Solved Grand Quiz 2020

Question No 1

Which of the following is the octal equivalent of 28 decimal number?

Select Correct Option

- ✓ 31
- ✓ 32
- ✓ 33
- ✓ **34**……(For More Visit VUStudents.pk)

Question No 2

The maximum decimal number that can be represented using the 64-bit unsigned representation is _____.

Select Correct Option

- ✓ 2^63
- ✓ **(2^64)-1**……(For More Visit VUStudents.pk)
- ✓ (2^64)+1
- ✓ 2^64

Question No 3

In a 4-variable K-map, a 2-variable product term is produced by

Select Correct Option

- ✓ a 2-cell group of 1s
- ✓ a 8-cell group of 1s
- ✓ **a 4-cell group of 1s**……(For More Visit VUStudents.pk)
- ✓ a 4-cell group of 0s

Question No 4

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

Select Correct Option

- ✓ 0
- ✓ **1**……(For More Visit VUStudents.pk)
- ✓ X (don't care condition)
- ✓ Any of given option depending on SOP term

Question No 5

The _____ input select/deselects both the decoders simultaneously.

Select Correct Option

- ✓ Active high
- ✓ Disable
- ✓ **Enable**……(For More Visit VUStudents.pk)
- ✓ Active Low

Question No 6

NAND and _____ gates are known as Universal Gates.

Select Correct Option

- ✓ AND
- ✓ **NOR**……(For More Visit VUStudents.pk)
- ✓ OR
- ✓ NOT

Question No 7

The declaration section of ABEL generally includes the device declaration, _____ declarations and set declarations.

Select Correct Option

- ✓ Cell
- ✓ **Pin**……(For More Visit VUStudents.pk)
- ✓ Model
- ✓ System

Question No 8

An SOP expression having a domain of 2 variables will have a truth table having _____ combinations of inputs and corresponding output values.

Select Correct Option

- ✓ **4**……(For More Visit VUStudents.pk)
- ✓ 6
- ✓ 8
- ✓ 10

Question No 9

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

Select Correct Option

- ✓ **0**……(For More Visit VUStudents.pk)
- ✓ 00
- ✓ 000
- ✓ 0000

Question No 10

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

Select Correct Option

- ✓ **Slow**……(For More Visit VUStudents.pk)
- ✓ Fast
- ✓ Average
- ✓ Medium

Question No 11

The complement of a variable is always

Select Correct Option

- ✓ 0
- ✓ 1
- ✓ Equal to the variable
- ✓ **The inverse of the variable**……(For More Visit VUStudents.pk)

Question No 12

A (B + C) = A.B + A.C is the expression of _____.

Select Correct Option

- ✓ Demorgan's Law
- ✓ Commutative Law
- ✓ **Distributive Law**……(For More Visit VUStudents.pk)
- ✓ Associative Law

Question No 13

If the number 2025 is represented in floating point, then exponent is _____.

Select Correct Option

- ✓ 0
- ✓ 1
- ✓ 2
- ✓ **3**……(For More Visit VUStudents.pk)

Question No 14

Excess-8 code of -6 is _____.

Select Correct Option

- ✓ 1010
- ✓ **0010**……(For More Visit VUStudents.pk)
- ✓ 0110
- ✓ 1110

Question No 15

A 3-variable Karnaugh map has

Select Correct Option

- ✓ **Eight cells**……(For More Visit VUStudents.pk)
- ✓ Three cells
- ✓ Sixteen cells
- ✓ Four cells

Question No 16

To represent in digital value, the number of digit (0s and 1s) that represents a quantity is _____ to the range of values that are to be represented.

Select Correct Option

- ✓ Equal
- ✓ Greater
- ✓ Lesser
- ✓ **Proportional**……(For More Visit VUStudents.pk)

Question No 17

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

Select Correct Option

- ✓ "0"
- ✓ "1"
- ✓ **Both "0" and "1" can be used**……(For More Visit VUStudents.pk)
- ✓ Parity bit is not needed in this case

Question No 18

The carry propagation delay problem in parallel binary adder can be solved by _____.

Select Correct Option

- ✓ Using look-ahead carry circuits
- ✓ **Using two full adders**……(For More Visit VUStudents.pk)
- ✓ Using bridge circuit between two adders
- ✓ Carry propagation problem can not be solved

Question No 19

Two 2-input, 4-bit mulitplexers 74X157 can be connected to implement a _____ multiplexer.

Select Correct Option

- ✓ 2-input, 4-bit
- ✓ **2-input, 8-bit**……(For More Visit VUStudents.pk)
- ✓ 4-input, 8-bit
- ✓ 4-input, 16-bit

Question No 20

The octal equivalent of the following binary number is _____.

Select Correct Option

- ✓ 107
- ✓ **117**……(For More Visit VUStudents.pk)
- ✓ 474
- ✓ 447

Question No 21

A' is written is ABEL as_____.

Select Correct Option

- ✓ @A
- ✓ $A
- ✓ **!A**……(For More Visit VUStudents.pk)
- ✓ #A

Question No 22

Which of the following is the hexadecimal equivalent of 28?

Select Correct Option

- ✓ 1A
- ✓ 1B
- ✓ **1C**……(For More Visit VUStudents.pk)
- ✓ 1D

Question No 23

High Level Noise Margins (VNH) of CMOS 5 volt series circuits is _____.

Select Correct Option

- ✓ 0.3 V
- ✓ 0.5 V
- ✓ **0.9 V**……(For More Visit VUStudents.pk)
- ✓ 3.3 V

Question No 24

Adjacent 1s detector circuit will have active high output for the input.

Select Correct Option

- ✓ 0101
- ✓ 1010
- ✓ **0011**……(For More Visit VUStudents.pk)
- ✓ 0001

Question No 25

Modern information techniques are relying more on _____ transmission.

Select Correct Option

- ✓ Analogue
- ✓ **Digital**……(For More Visit VUStudents.pk)
- ✓ Both Analogue and Digital
- ✓ None of given

Question No 26

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

Select Correct Option

- ✓ One
- ✓ **Two**……(For More Visit VUStudents.pk)
- ✓ Three
- ✓ Four

Question No 27

How many data select lines are required for selecting eight inputs?

Select Correct Option

- ✓ 4
- ✓ **3**……(For More Visit VUStudents.pk)
- ✓ 2
- ✓ 1

Question No 28

Select the mode of programming in which GAL 16V8 cam be programmed.

Select Correct Option

- ✓ Simple Mode
- ✓ Complex Mode
- ✓ Registered Mode
- ✓ **All of the given option**……(For More Visit VUStudents.pk)

Question No 29

_____ has the fastest switching speed and low power requirement.

Select Correct Option

- ✓ **Advanced low power Schottky**……(For More Visit VUStudents.pk)
- ✓ Fast TTL
- ✓ Standard TTL
- ✓ Schottky TTL

Question No 30

The PLA can be programmed to give an output of constant _____ or _____.

Select Correct Option

- ✓ **0.1**……(For More Visit VUStudents.pk)
- ✓ 1.2
- ✓ 2.3
- ✓ 0.0

THE END