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Best of luck!

PAST PAPER

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Question No : 1 of 26 Marks: 1 (Budgeted Time 1 Min)

(A+B).(A+C) = _____

Answer (Please select your correct option)

- B+C
- A+BC
- AB+C
- AC+B

correct

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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

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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

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

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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

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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



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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



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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

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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
- NAND
- XOR

correct



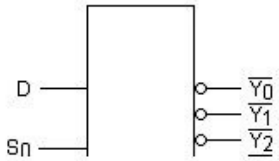
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Question No : 10 of 26 Marks: 1 (Budgeted Time 1 Min)

The device shown here is most likely a _____



Answer (Please select your correct option)

- Comparator
- Multiplexer
- Demultiplexer
- Parity generator

correct

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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

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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)

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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

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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
- Karnauph Map
- Quine-McCluskey ⇦ correct
- Demorgan's Theorem

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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

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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

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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
- A+B=B+A

correct

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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

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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)

- $(A+\overline{B})(\overline{A}+B+\overline{C})$ correct ⇦
- $\overline{A}\overline{B}C+A\overline{B}C$
- $(A+\overline{B}+\overline{C})(A+B+C)$
- $(A+B)(A+C)$

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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

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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)

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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)

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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)

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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)

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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)

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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)

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