Q1: Write the mantissa (in Hexadecimal) for the decimal number: 6.91390061 2795379

- A. 5d3eac
- B. 5D3eac
- C. 5d3e7c
- D. 5d3e6c

Q2: Write the mantissa (in Hexadecimal) for the decimal number: 4.99299012 7608806

- A. 1Dc693
- B. 1f8693
- C. 1fc693
- D. 1f5693

Q3: The POS for the given minterms - [5] is?

- A. (-A+-B+C).(-A+B+-C).(A+B+-C).(A+B+C)
- B. (-A+-B+C).(-A+B+-C).(-A+B+C).(A+B+-C).(A+B+C)
- C. (-A+-B+-C).(-A+-B+C).(-A+B+-C).(-A+B+C).(A+-B+-C).(A+B+-C).(A+B+C)
- D. (-A+-B+-C).(-A+-B+C).(-A+B+-C).(A+-B+-C).(A+B+-C).(A+B+C)

Q4: The POS for the given minterms - [2, 4, 6, 7] is?

- A. (-A+-B+-C).(-A+-B+C).(-A+B+C).(A+-B+C)
- B. (-A+-B+-C).(-A+-B+C).(-A+B+C).(A+-B+C).(A+B+-C)
- C. (~A+B+C)
- D. (-A+-B+-C).(-A+-B+C).(-A+B+-C).(-A+B+C).(A+-B+C)

Q5: Minimize the given expression - Minterms: [0, 5, 7]

$$A. F = AB + B'C + BC'$$

$$B. F = B'C' + B'C$$

$$C. F = A'C' + AC$$

D.
$$F = A'C' + A'BC'$$

$$E. F = AC + A'B'C'$$

Q6: Convert the expression (\sim A+ \sim B+C).(\sim A+B+C).(\sim A+B+C).(A+ \sim B+C).(A+ \sim B+C) to SOP form

B.
$$(-A.-B.-C)+(-A.B.-C)+(A.-B.-C)+(A.-B.C)+(A.B.C)$$

D.
$$(~A.~B.~C)+(~A.B.~C)+(~A.B.C)$$

Q7: What is the binary representation of 64 (in hexadecimal)?

- A. 1101100
- B. 1100100
- C. 0100100
- D. 1000100

Q8: What are the minterms for the given pos expression: (~A+B+~C).(A+~B+C)

- A. [5]
- B. [2]
- C. [2]
- D. [0, 1, 3, 4, 6, 7]

Q9: What is the decimal representation of 303 (in octal)?

- A. 195
- B. 199
- C. 191
- D. 995

Q10: What are the minterms for the given sop expression: (-A.-B.C)+(-A.B.-C)+(-A.B.C)+(-A.B

- A. [6]
- B. [6]
- C. [1, 2, 3, 4, 7]
- D. [5]

Q11: What is the decimal representation of 94 (in hexadecimal)?

- A. 138
- B. 148
- C. 145
- D. 248

Q12: Minimize the given expression - ($^{A+}B+^{C}$).($^{A+}B+^{C}$).($^{A+}B+^{C}$).($^{A+}B+^{C}$).($^{A+}B+^{C}$)

- A. F = B'C + AC'
- B. F = A'C
- C. F = AC
- D. F = B'C + A'C
- E. F = AB' + C

Q13: Minimize the given expression - Minterms: [1, 2, 3, 4, 5, 6, 7]

- A. F = B' + A + C
- B. F = AB + A'B' + C
- C. F = B + C
- D. F = B + A + C
- E. F = BC' + A

Q14: What is the decimal representation of 10001001 (in binary)?

- A. 137
- B. 127
- C. 134
- D. 131

Q15: Minimize the given expression - Minterms: [0, 1, 3, 5, 7]

- A. F = AB + C
- B. F = B'C + A'B'C'
- C. F = A'B' + C
- D. F = AB'C + A'B'C'
- E. F = B' + C