Q1: What are the minterms for the given pos expression: (~A+~B+~C).(~A+B+~C).(~A+B+C).(A+~B+~C).(A+~B+C).(A+B+~C).(A+B+C)

A. [1]

B. [7]

C. [2, 4, 6]

D. [0, 2]

Correct answer: [1]

Q2: How do you represent decimal number 59 in excess 3 BCD code

A. 11000010

B. 10000011

C. 10000010

D. 10100010

Correct answer: C. 10000010

Q3: Write the mantissa (in Hexadecimal) for the decimal number: 0.43598612045483764

A. 5f3903

B. 5f3994

C. 5f3993

D. 5f3A93

Correct answer: C. 5f3993

Q4: The POS for the given minterms - [0, 1, 4, 6] 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)

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

Correct answer: (~A+B+~C).(~A+B+C).(A+~B+C).(A+B+C)

Q5: Convert the expression (~A+~B+~C).(~A+~B+C).(~A+B+C).(A+~B+C).(A+B+~C) to SOP form

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

B. (~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)

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

Correct answer: (~A.B.~C)+(A.~B.~C)+(A.B.C)

Q6: What does the expression (B . ~C)evaluate to, When A=1 B=1 C=1

A. 0

B. 1

Correct answer: 0

Q7: How do you represent decimal number 23 in 8421 BCD code

A. 00100011

B. 00110011

C. 01100011

D. 00100010

Correct answer: A. 00100011

Q8: Minimize the given expression - (~A+~B+~C).(~A+~B+C).(~A+B+C).(A+~B+C) .(A+B+~C)

A. F = A

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

C. F = ABC + AB'C' + A'B'C'

D. F = A'BC' + ABC + AB'C'

E. F = AB + BC'

Correct answer: F = A'BC' + ABC + AB'C'

Q9: Write the mantissa (in Hexadecimal) for the decimal number: 4.30993946 7814039

A. 93b06

B. 9eb06

C. 99b06

D. 9ebB6

Correct answer: B. 9eb06

Q10: How do you represent decimal number 59 in excess 3 BCD code

A. 10000110

B. 10000010

C. 10000000

D. 10010010

Correct answer: B. 10000010