Name! Udoy Saha | Set 8 | . 23341134 Seekion' 01 Ans to the quee (A C B B E, 0 0 0)1. = 1010 1100 1011 1011 1110 0000 0000 ForeHoodock Rivira x 631 C. Sign = 1 : Biased exponent = (01011001), = 89 : Actual exponent = 89 - (2 -1) = - 38 : Fraction = (0:011 1011 111) = 22 + 23 + 24 + 26 + 27 + 28 + 23 + 2 10 = 0.46777 34375 . Decimal number = (-1) x (1+04677734375) x 2 (101011-(1) × 1.04677734375 × 2-38 = - 5.339728659 x 10-12

Ans to the anestion no:-2 Values: 13 = (1.625)10 =(1.101), = 1.101 × 2 9 = 2.25 = (10.01)2 = 1.001 × 2 By multiplying => 1.101 × 2° × 1.001 × 2' = (1.101 × 1.001) × 20+1 = 1'11 0161 x 2 = 1.11 01 010 X 2' Conventing the result into Lecimal,
1.1101016 x2' = (11'10101)2 01 8 823 83 4 8 8 8 3 - 65 62 5

And the actual decimal multiplication = 13 × 3 = 3-65625 so, it is an exact match, since no fractioned value was lost during the calculation.

