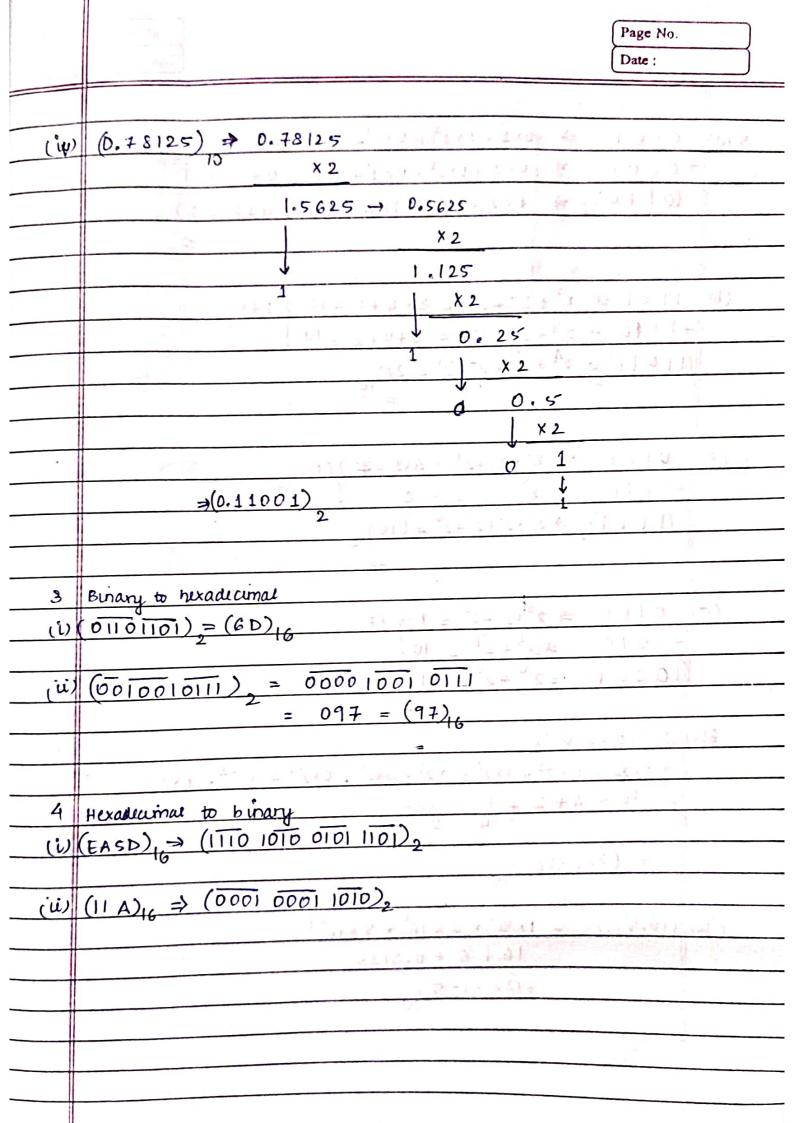
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Date: $0 \times 2^{3} + 1 \times 2^{2} + 0 \times 2^{1} + 1 \times 2^{0} = 4 + 1 = 5$ 5 (a) 0101 $0 \times 2^{3} + 0 \times 2^{2} + 0 \times 2^{1} + 1 \times 2^{0} = 0 + 1 = 1$ +0001 $(0110)_2 \Rightarrow 0 \times 2^3 + 1 \times 2^2 + 1 \times 2^1 + 0 \times 2^0 = 4 + 2 = (6)_{10}$ (b) $1101 \Rightarrow 2^3 + 2^2 + 2^0 = 8 + 4 + 1 = 13)(2+)$ $+1100 + 23 + 2^2 + 2^1 = 8 + 4 + 2 = 14$ $(11011) \Rightarrow 2^4 + 2^3 + 2^2 + 2^1 = (27)$ (c) $0111 \Rightarrow 2^2 + 2^1 + 2^0 = 4 + 3 = 3 + 7(15)$ + $1000 \Rightarrow 2^3 = 8$ $(1111)_{3} \Rightarrow 2^{3}+2^{2}+2^{1}+2^{0} = (15)_{10}$ (d) $0 | 1 | 1 \Rightarrow 2^{2} + 2^{1} + 2^{0} = 7 + 9 | 7$ $4 | 10 | 10 \Rightarrow 2^{3} + 2^{1} = 10$ $(10 | 00 | 1)_{2} = 2^{4} + 2^{0} = 17$ 6(1) (10110.0101), $\Rightarrow 1 \times 2^{\frac{4}{9}} + 0 \times 2^{\frac{3}{4}} + 1 \times 2^{\frac{1}{4}} + 1 \times 2^{\frac{1}{4}} + 0 \times 2^{\frac{9}{4}} + 0 \times 2^{\frac{3}{4}} + 1 \times 2^{\frac{1}{4}} + 0 \times 2^{\frac{3}{4}} + 1 \times 2^{\frac{1}{4}}$ 16+4+2+1+1×0+1 = (22.3125)(u) (16.5) $= 1 \times 16^{1} + 6 \times 16^{0} + 5 \times 16^{-1}$ 16+6+0.3125 = (22.3125)

Page No. Date: (iii) $(26.24)_8 = 2 \times 8^1 + 6 \times 8^0 + 2 \times 8^{-1} + 4 \times 8^{-2}$ = 16 + 6 + 0.25 + 0.0625 = (22,3125) (iv) (DADA, B) = 13×163+10×162+13×161+10×160+11×16 = 53248 + 2560 + 208 + 10 + 0.6875 =(56026.687.5) (v) $(1010.1101)_2 = 1 \times 2^3 + 0 \times 2^2 + 1 \times 2^1 + 0 \times 2^0 + 1 \times 2^{-1} + 1 \times 2^{-2} + 0 \times 2^{-3} + 1 \times 2^{-9}$ = 8+2+0.5+0.25+0.0625 =(10.8125)10 X -X