ACM - Recruitment - Questigne - 5 Binary Logic & Number Systems Tark: Convert the following (1) a) 101011 (prany) -> decimal 4 stesse (B) (a) (b) (D) (a) $= 1 \times 2^{5} + 0 \times 2^{4} + 1 \times 2^{3} + 0 \times 2^{2} + 1 \times 2^{1} + 1 \times 2^{0}$ = 32 + 8 + 2+1 = 43 (decimal) b) 101011 (binary) -) hex 0010 1011 0010=2 1011 = B = 2B (hex) (1) a) 93 (decimal) -> binary Answer = 1011101 (binary)

b) 93 (decimal) -> hex

16/93 5 (13)

(13 is D'in hexadecimal)

Answer = 5D