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Q. 4.18: Design a combinational circuit that generates 9 's and 10's complement of a BCD digit Page 9/57

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Solutions Manual 54/4 = (5*b + 4)/4 =b + 3, so 5 * b = 52 -4, and b = 8. (c) (2 *b + 4) + (b + 7) = 4b, so b = 11. 1.6. (x - 3)(x-6) = x 2-(6 + 3)x +6*3 = x 2-11x + 22Therefore: 6 + 3 = b +1m, so b = 8 Also, 6*3= (18) 10 = (22) 8.1.7. 64CD 16= 0110 0100 1100 1101 2= 110 010 011 001 Page 12/57

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16 51216 32 – 0 (200)16 2 –0 replace each digit by binary To binary (200)16 = (10 0000 0000)22nd method is faster.1.9 (a)

(11010.0101)2 = 16+8+2+0.25+ 0.0625 =(26.3125)10(b) $(A6.5)16 = 10 \times 16 +$ $6 + 5 \times 0.0625 =$ (166.3125)10(c) $(276.24)8 = 2 \times 82 +$ $7 \times 8 + 6 + 2 + 48$ 64Digital Design With An Introduction to the Verilog HDL -Solution Manual.

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remaining four bits b's select the suit (e.g., select the "number" of the card. Example: 0001 (ace) tqueen, king).

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Step-by-step solution:
Step 1 of 7 The
integer part of a
decimal number is
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converted to any base r system by dividing the number and all successive quotients with the base value r. The remainders are accumulated after the integer quotient becomes zero and gives the value for the coefficients of r base number system.

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