Numerical Set-2 answers

- 1. Show the value of all bits of a 12-bit register that hold the number equivalent to decimal 215 in
- (a) binary; (b) binary-coded octal; (c) binary coded hexadecimal; (d) binaryô€, ed decimal (BCD).
- a) 000011010111
- b) 000 011 010 111
- c) 0000 1101 0111
- d) 0010 0001 0101
- 2. Show the bit configuration of a 24-bit register when its content represents the decimal equivalent of 295:
- (a) in binary; (b) in BCD; (c) in ASCII using 8 bits?
- a) 00000000000000100100111
- b) 0000 0000 0000 0010 1001 0101
- c) 00110010 00111001 00110101
- 3. What is the radix of the numbers if the solution to the quadratic equation:

X2 â€"
$$10x + 31 = 0$$
 is $x = 5$ and $r = 8$?

ans: 13