Agusta Espinoza SIE 370-HWI-Pt2-Written 1/27/23 Convert the following numbers indo the specifical base: a) 35,0 to anary (base 2) using successive division methods 35/2 = 17R/1 19/2 = 8R/1 9/2 = 4R/02/2 = 1 RD | start have 35 = 100011 c) 707 to binary (base 2) using the Binary Grouping method. 4216 421 421 . 1) 707 = 111000111 0 0 b) 707g to decimal (bage 10) varing the Positional Notatra-Method: 0 0 $707_{9} = 7(3^{2}) + 0(8') + 7(8')$ = 7(6') + 0 + 7 = 448 + 0 + 7 $707_{9} = 455_{10}$

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| | DEE 11. (1. 2) 111 11 Res | G . M. 411. |
| | d) FFC to brung (base 2) using the Bing | is control of the |
| | 8 7 2 1 8 7 2 1 8 7 2 1 | |
| | 1111 1111 1100 | |
| | | |
| | [FC16 = 111111111002] | |
| | e) 3A24 to octal (base 8) using the Binary | Caravaina Methodi |
| | 1 | |
| | 3 A 2 | Hex: A = 10 |
| | 21 842/ 21 | 8=11 |
| - | | C=12 |
| - | 3A216 = 111010102 | D= 13 E= 14 |
| | 011 101 010 | F= 15 |
| | 3 5 2 | <i>i i</i> |
| -3 | (21. 2-2) | |
| 3 | $3A2_{16} = 352_{8}$ | |
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| | | A. C. |