**Week 1 Handwritten Assignment 1**

** Section 1.7.1 questions 2, 3, 8, 10 and 25**

**2.**

**a)** 53

**b)** 128 + 16 + 4 + 2 = 150

**c)** 128 + 64 + 8 + 4 = 204

**3.**

**a)** (128 + 32 + 8 + 4 + 2 + 1) + (128 + 64 + 16 + 8 + 2 + 1) = 175 + 219 = 394

**b)** (128 + 16 + 4 + 2 + 1) + (128 + 64 + 32 +16 + 8 + 4 + 2 + 1) = 151 + 255 = 406

**c)** (64 + 32 + 16 + 4 + 1) + (128 + 32 + 8 + 4) = 117 + 172 = 289

**8.**

**a)** 0000 0001 0010 0110 1111 1001 1101 0100

**b)** 0110 1010 1100 1101 1111 1010 1001 0101

**c)** 1111 0110 1001 1011 1101 1100 0010 1010

**10.**

**a)** 98

**b)** 1203

**c)** 659

|  |  |  |
| --- | --- | --- |
| A | B | ¬(A v B) |
| F | F | T |
| F | T | F |
| T | F | F |
| T | T | F |

**25.**