Week 2- Lab3 (50 points)

1. Please choose the correct answer and fill out the table in “Week 2 Lab Table Answer” file.
2. Fill up the below table with your correct answer and then submit this file to “Lab 2” assignment

|  |  |  |  |
| --- | --- | --- | --- |
| **Multiple Choice**  **Questions** | **Answers**  **Multiple Choice**  **Questions** | **Multiple Choice**  **Questions** | **Answers**  **Multiple Choice**  **Questions** |
| 1 | A | 14 | D |
| 2 | C | 15 | C |
| 3 | A | 16 | A |
| 4 | D | 17 | C |
| 5 | C | 18 | B |
| 6 | A | 19 | B |
| 7 | B | 20 | B |
| 8 | C | 21 | C |
| 9 | A | 22 | D |
| 10 | B | 23 | D |
| 11 | A | 24 | B |
| 12 | C | 25 | B |
| 13 | B |  |  |

Decimal to binary conversion questions

Question 1: Convert 112 from decimal to binary.

1. 111000
2. 1110101
3. 1010000
4. 1110000

Question 2: Convert 25673 from decimal to binary.

1. 110010001001011
2. 100010001001001
3. 110010001001001
4. 110010000001001

Question 3: Convert 555 from decimal to binary.

1. 1000101011
2. 1000111011
3. 1000101000
4. 1011101011

Binary to decimal questions

Question 4: Convert 6.25 to unsigned binary.

1. 110.111
2. 110.000
3. 0.110
4. 110.01

Question 5: Convert 0.1875 to unsigned binary.

1. 0.0010
2. 0.0111
3. 0.0011
4. 0.0101

Question 6: Convert 1.3125 to unsigned binary.

1. 1.0101
2. 1.0100
3. 0.0101
4. 1.0111

Decimal to hexadecimal conversion questions

Question 7: Convert 56 from decimal to hexadecimal.

1. 31
2. 38
3. 3A
4. 3D

Question 6: Convert 273 from decimal to hexadecimal.

1. 107
2. 10F
3. 111
4. 117

Question 9: Convert 105 from decimal to hexadecimal.

1. 69
2. 6B
3. 71
4. 75

Hexadecimal to decimal conversion questions

Question 10: Convert 35 from hexadecimal to decimal.

1. 45
2. 53
3. 58
4. 59

Question 11: Convert 1AA from hexadecimal to decimal.

1. 426
2. 429
3. 448
4. 450

Question 12: Convert 12 from hexadecimal to decimal.

1. 12
2. 16
3. 18
4. 22

Binary to hexadecimal conversion questions

Question 13: Convert 10010001 from unsigned binary to hexadecimal.

1. 90
2. 91
3. 92
4. 93

Question 14: Convert 101010 from unsigned binary to hexadecimal.

1. 27
2. 28
3. 29
4. 2A

Question 15: Convert 100110101 from unsigned binary to hexadecimal.

1. 133
2. 134
3. 135
4. 136

Hexadecimal to binary conversion questions

Question 16: Convert 0x68 from hexadecimal to unsigned binary.

1. 1101000
2. 1101001
3. 1101100
4. 1111000

Question 17: Convert 0xF2 from hexadecimal to unsigned binary.

1. 10110010
2. 11100010
3. 11110010
4. 11010010

Question 18: Convert 0x19 from hexadecimal to unsigned binary.

1. 11000
2. 11101
3. 11001
4. 10001

Storage Data Size for a 32-bit processor

Question 19: How many bits are used for word data type?

1. 8
2. 16
3. 64
4. 128

Question 20: How many bits are used for doubleword data type?

1. 8
2. 32
3. 64
4. 128

Question 21: How many bits are used for quadword data type?

1. 8
2. 32
3. 64
4. 128

Question 22: How many bits are used for double quadword data type?

1. 8
2. 32
3. 64
4. 128

Question 23: What is the minimum number of binary bits needed to represent 4095 decimal number?

1. 12
2. 16
3. 20
4. 24

Question 24: What is the minimum number of binary bits needed to represent 42319 decimal number?

1. 12
2. 16
3. 20
4. 24

Question 25: What is the minimum number of binary bits needed to represent 65534 decimal number?

1. 12
2. 16
3. 20
4. 24