Assignment answer sheet

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Course: COMPUTER ORGANISATION AND ARCHITECTURE

ASSIGNMENT I

**Undertaking:**

I affirm that I have not given or received any unauthorized help on this assignment, and that this work is my own. I understand that any violation of this will result in disciplinary action from the JAIN Online program.

**Answers**

a) 1101 1001 XOR B = 01111101

B = 0111 1101 XOR 1101 1001 = 1010 0100

b)1101 1001 XOR B = 1111 0001

B = 1111 0001 XOR 1101 1001 = 0010 1000

2)

W

W+1

W+2

Z

|  |
| --- |
| operation code Mode |
| Y |
| next instruction |
|  |
| operand |

Z = Effective address

* 1. Direct

Z = Y

* 1. Indirect

Z = M[Y]

* 1. Relative

Z = Y+W+2

* 1. Indexed

Z = Y + X