5W 13 12 0FF18T

instruction: SW 12, 20(13)

In register 2 the stone value in the menory address; (20 - 3) = 17

a) Sign - extent output: 0000 0000 0000 0000 0000 0000 0001 01000 0101 Left 2 output: 0000 0000 0000 0000 0000 0000 0101 0000

b) Control unit input ALU: 010 CADO)

c) New PC address: Old Pc address + 4

d) Roy Dot = it can be 00010 or 00011

Memboling Mux output = it am be dota memory output or ALU output

e) ALU input values = (-3 and 20)

Front - 12 unit inputs are (old Pc unime and 4)

A) The imports to registers Unit are:

Read Rayinha 1 = 00011

Register 2 = 00010