

Quiz 4 (5 Minutes)

Student Name:

ID: . .

Student Serial Number (1 – 34):

Question: In the shown datapath, assuming $R_1=11$, $R_2=12$, $R_3=13$... etc and the following instruction is fetched:
(2 Points)

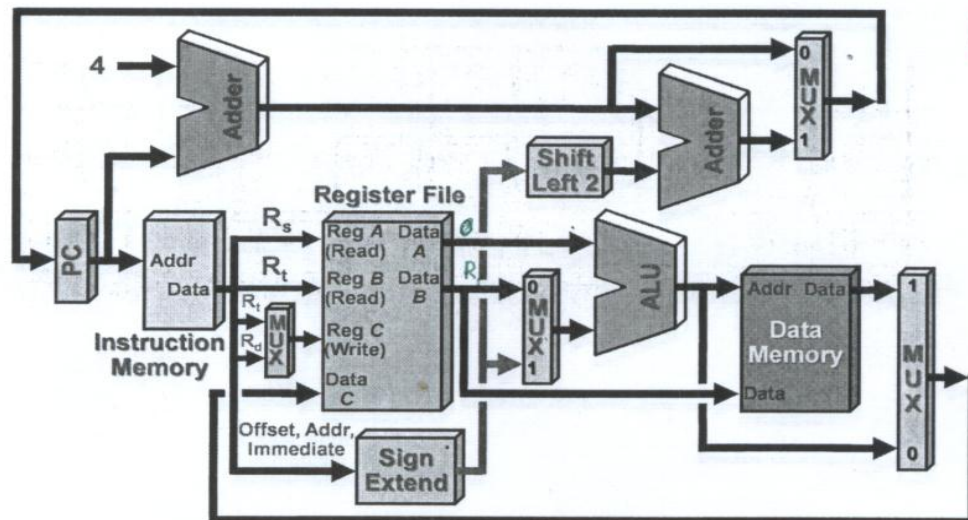
| Opcode | R_S | R_t | R_D | Shift | Function |
|------------|-------|-------|-------|----------|----------|
| Arithmetic | 0 | 1 | 2 | No shift | ADD |

a) Determine the value coming out of "Data A" output.

Zero

b) Determine the value coming out of "Data B" output.

$R_1 = 11$



Solution: