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**Marks** 3.0/4.0

**Grade** 3.8 out of 5.0 (75%)

Question **1**

Complete

Mark 1.0 out of 1.0

**Dynamic pipeline scheduling chooses which instructions to execute next, possibly reordering them to avoid stalls?**

- ☐ a. Branch prediction
- ☒ b. Dynamic pipeline
- ☐ c. Prediction branch
- ☐ d. Dynamic branch prediction

Question **2**

Complete

Mark 0.0 out of 1.0

For Dynamic Scheduling, select the correct option.

- ☐ a. The hardware determines the order in which instructions execute
- ☐ b. The DMA determines the order in which instructions execute
- ☐ c. The software determines the order in which instructions execute
- ☒ d. None of the mentioned

Question **3**

Complete

Mark 1.0 out of 1.0

Consider the following code:

**CODE:**

**Load R1,Loc1; Load R1 from memory location Loc1**

**Load R2,Loc2; Load R2 from memory location Loc2**

**Add R1,R2,R1; Add R1 and R2 and save result in R1**

**Dec R2; Decrement R2**

**Dec R1; Decrement R1**

**Mpy R1,R2,R3; Multiply R1 and R2 and store in R3**

**Store R3, Loc3; Store r3 in Memory Location Loc3**

What is the number of cycles needed to execute the above code assuming each instruction takes one cycle to execute?

- ☒ a. 10
- ☐ b. 9
- ☐ c. 5
- ☐ d. 7

Question **4**

Complete

Mark 1.0 out of 1.0

For the Software Pipelining, select the correct option.

- ☐ a. select order of instructions from different iterations to pipeline
- ☒ b. All of the mentioned
- ☐ c. unroll loop body with an unroll factor of n
- ☐ d. "paste" instructions from different iterations into the new pipelined loop body

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