

# Important Problematic Questions for University Exam



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## MODULE 1

**Q1:**

A benchmark program is run on a 40 MHz processor. The executed program consists of 100,000 instruction executions, with the following instruction mix and clock cycle count:

Instruction Type	Instruction Count	Cycles per Instruction
Integer arithmetic	45.000	1
Data transfer	32.000	2
Floating point	15.000	2
Control transfer	8000	2

Determine the effective CPI, MIPS rate, and execution time for this program.

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EDULINE

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