(3 Hours)	[Total Marks: 80]
Note: Q1 is compulsory. Attempt any THREE out of the remaining quest Assume suitable data if necessary.	stions.
Q1. Attempt any 4 sub questions	
 a) Differentiate between computer architecture b) What is instruction pipelining? Explain. c) Draw the flowchart of unsigned binary restor d What is a micro-program? Give suitable exame e) Explain computer memory hierarchy. 	(5 M) ring division algorithm. (5 M)
Q2. a) What is stored program concept? Explain Vonb) Differentiate between hardwired and micropro	
Q3 a) Represent the number (- 0.0625) ₁₀ in single at IEEE 754 binary floating point representation b) What are Pipeline Hazards? Explain different to	formats.
4 a) Explain addressing modes with suitable example	es. (10 M)
b) Draw the flowchart of Booths algorithm and mu using Booths algorithm.	altiply (-7)*(3) (10 M)
Q5. a) Explain Interrupt driven I/O.b) Explain different cache memory mapping technology	(10 M) niques. (10 M)
Q6 Write notes on (any two) a) Interleaved and Associative memory. b) DMA. c) Instruction execution cycle with interrupt pr	(20 M) occessing.