Paper / Subject Code: 39404 / COMPUTER GRGANIZATION AND ARCHITECTURE

Q.P. Code :23709

[Time: Three Hours]

[Marks:80]

Please check whether you have got the right question paper.

N.B:

- 1. Question.No.1 is compulsory.
- 2. Solve any three questions out of remaining five questions.
- 3. Assume suitable data if necessary
- 4. Figures to right indicate marks

Q. 1 Solve any four out of five.

	b) c) d)		(05) (05) (05) (05) (05)
Q. 2		Multiply (- 5) and (2) using Booth's Algorithm. Discuss various pipeline hazards with example	(10) (10)
Q. 3		Explain the register organization of a CPU Consider the string 8,3,9,4,9,8,5,8,3,9,6,7,5,4,3,9,4,9,3 Find the page faults for 3 frames using FIFO, Optimal, & LRU page replacement policies	(10) (10)
Q. 4		Divide 4 by 2 using non restoring division algorithm. Explain Flynn's classification in detail.	(10) (10)
Q, 5	•	Discuss the various characteristics of Memory. Explain design of control unit w.r.t. microprogrammed and hardwired approach.	(10) (10)
Q. 6	-	Explain different addressing modes with example What is the need of DMA? Explain its various techniques of data transfer.	(10) (10)
