

Rea.	No. :			***************************************					
1000							Palyan		
Name	:	****		*****					
							4000	i e par	
	Thi	mal	Can	nact	me	D T	och	Da	PR IP

Third Semester B.Tech. Degree Examination, October 2016 (2008 Scheme) 08.306 : COMPUTER ORGANIZATION (RF)

Time: 3 Hours

Max. Marks: 100

PART-A

Answer all questions. Each question carries 4 marks.

1. Differentiate synchronous data transfer with asynchronous data transfer.

How does execution time differ from processor time ?

- 3. What is byte addressability?
- 4. What are the functions of I/O interface?
- 5. What is the difference between subroutine and interrupt service routines?
- 6. Why do we need DMA?
- 7. What will be the width of address and data buses for a 512 K \times 8 memory chip?
- 8. What is virtual memory? How is it implemented?
- 9. What is memory interleaving and give its advantages?
- Define average memory access time for a computer system with two levels of caches. (10×4=40 Marks)

PART-B

Answer any one question from each Module. Each question carries 20 marks.

Module - I

11. a) Describe different types of addressing modes in detail.

- 12
- b) What is stack? Illustrate the use of stack in subroutine processing with suitable diagram.

8

OR

technique.

20

(3×20=60 Marks)