P1311

SEAT No. :	
OBILI I (OV)	`

[Total No. of Pages: 2

[4858] - 1041

T.E. (E&Tc) (End Semester) EM PROGRAMMING & OPERATING SYSTE

SYSTEM PROGRAMMING & OPERATING SYSTEMS							
	(2012 Pattern)						
Time: 3 Hours]			[Max. Marks: 70				
	1)	ions to the candidates: Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8. Noat diagrams must be drawn whenver pages are					
	2) 3) 4)	Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. Assume suitable data if necessary.					
Q1)	a)	Describe the design of Pass 1 of two pass assembler.	[7]				
	b)	Mention different data structures used for language proceany one data structure in detail.	essing. Explain [7]				
	c)	What do you mean by translated origin, linked origin an Explain with examples.	nd load origin? [6]				
		OR					
Q2)	a)	Explain the advance macro facilities	[7]				
		i) Alteration of flow of control during expansion					
		ii) Expansion time variables					
		iii) Attributes of parameters					
	b)	What are loaders? List the different type of loader sch Compile and Go-loader scheme.	emes. Explain				
	c)	Explain the different phases of language processing.	[6]				
Q3)	a)	What is CPU scheduling? Explain 2 different scheduling a examples.	lgorithms with				
	b)	State the conditions for deadlock.	[6]				
	c)	Explain process and threads in detail.	[6]				

Q4)	a)	Write short notes on:	[6]
		i) System Call	
		ii) Inter process communication	
	b)	Banker's algorithm is used for Deadlock avoidance. Explain.	[6]
	c)	What is Real time operating system? Compare hard Real time system and Soft real time system.	em [6]
Q5)	a)	Explain the difference between Internal and External fragmentation. Whi one occurs in paging systems?	ch [6]
	b)	Explain in brief the memory allocation algorithms with examples.	[6]
	c)		[4]
		OR	
Q6)	a)	Explain demand paging. Also explain hardware support required support demand paging.	to [6]
	b)	Explain differents methods/ways in which memory allocation can be don	ne. [6]
	c)		[4]
Q7)	a)	Write short notes on:	[6]
		i) Directory structure	
		ii) File management system	
	b)	Explain Linux Ext 3 file system with diagram.	[6]
	c)	Write short note on RAID disk.	[4]
		OR	
Q8)	a)	Write short note on file management under UNIX.	[6]
	b)	Explain file directories and directory operations.	[6]
	c)	Explain various file operations.	[4]

