## B.E.(Computer Engineering) Sixth Semester (C.B.S.) System Software

P. Pages : 2 Time : Three Hours					<b>TKN/KS/16/7503</b> Max. Marks : 80	
	Note	s: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	All questions carry Solve Question 1 O Solve Question 3 O Solve Question 5 O Solve Question 7 O Solve Question 9 O Solve Question 11 O Due credit will be g Assume suitable dat Illustrate your answ	marks as indicated. R Questions No. 2. R Questions No. 4. R Questions No. 6. R Questions No. 8. R Questions No. 10. OR Questions No. 12. iven to neatness and adequate dimension ta whenever necessary. ers whenever necessary with the help of	s. neat sketches.	
1.	a)	Explain	evolution of the com	ponent of a programming system.	7	
	b)	Explain	general machine stru	acture in detail. Why it is called as stored OR	program concept ? 7	
2.	a)	Give an	d explain the flowch	art of Pass-1 overview and Pass-2 overvi	ew. 8	
	b)	Give & assembl	explain the data strue er design.	cture required in pass-1 and pass-2 of ass	embler, in a two pass <b>6</b>	
3.		Explain the features of macro facility. With the help of appropriate examples.				
4.	a)	Give the specification of databases for single pass macro processor. Which support macro call within macro.				
	b)	Give and explain the formats of MDT, MNT and ALA with example.				
5.	a)	Explain absolute loading scheme in detail with example. State its advantages and drawbacks. 7				
	b)	Write a note on subroutine Linkages.				
				OR		
6.		Give the PG1 PG1 EN PG1 EN	ESD, TXT and RLI START ENTRY EXTRN T1 ===== T2 ==== DC DC	D card entries for the following program PG1ENT1, PG1ENT2 PG2, PG2ENT1 A (PG1ENT1) A (PG1 ENT2 ±15)	Segments. 13	

		DC	A (PG1ENT2-PG1ENT1-3)			
		DC	A (PG2)			
		DC	A (PG2ENT1+PG2-PG1ENT1+4)			
	DCO	END				
	PG2	SIAKI ENTDV	DC2 ENT1			
		ENIKI	PG2 ENTI PG1ENT1 PG1ENT2			
	PG2ENT1		I OILINI, I OILINIZ			
	10221(11	DC	A (PG1ENT1)			
		DC	A (PG1ENT2+15)			
		DC	A (PG1ENT2-PG1ENT1-3)			
		END				
	Also write GE	EST and LESA	if starting address is 600 in the order PG1 then PG2.			
a)	Explain different phases of compiler with example.					
<b>b</b> )	Write a pote o	6				
0)	write a note o	θΗ ΝΓΑ & DΓΑ	Α.	0		
			OR			
a)	Write a note o	on LEX & YAC	C.	8		
<b>b</b> )	Write a note on cross compiler. Explain how bootstranging was be achieved					
0)	white a note of	m cross compi	er. Explain now bootstrapping ean de achieved.	U		
	What is device	e driver ? Expla	ain different UNIX device drivers in detail.	13		
a)	Give and explain device driver installation steps in WINDOWS.					
b)	Give and explain the steps involved in designing device driver.					
,						
a)	Explain Intel Net Burst Micro-architecture in detail.					
b)	Explain different modes of operation of IA-32 Processor.					
			OR			
a)	Explain basic	execution envi	ronment of IA-32 Processor.	10		
				20		
b)	Give different general purpose resisters used in IA-32 Processor.					

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