	2	10 210	210	210	2	10	210		
	_								
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	2		_210	<u>210</u>		10.40	210 PCS3	BI103	
		3.ª Se	mester Regular SYSTEM	PROGRAMN		18-19			
			BRA	NCH : CSE					
				e : 3 Hours Marks : 100					
-			Q.C	ODE : E788	• • •				
Α		ver Question No.1 (F		compulsory		from Pari	t-II and any tv	VO	
		The fig	ures in the righ	t hand margi	n indicate	marks.			
				Part- I					
Q1	a)	Short Answer Type What do you mean by					(2 :	x 10)	
		Describe the terms: S	System and Applic	ation Program	ming				
	с) d)2 ⁻	Differentiate between			e between pa	arse tree a	nd syntax		
		tree. List the functions of a			- F		2		
	e) f)	Highlight the role of a		execution.					
	g) h)	Differentiate between What is the purpose of		elf-relocating p	programs.				
	i)	What do you mean by	y multi-window edi						
	j) 2'	What do you mean by	y an Integrated De	evelopment Env 210	-	DE)? 10	210		
Q2		Focused-Short Ans	war Typa Quastic	Part-II	Any Eight o		(vo) (6	x 8)	
92	a)	What are the various	booting technique	s? Explain det	ails about su	b-routines.		× 0)	
	b)	What data-structures assembly? Describe i	•	Pass 1 of ar	n assembler	for the p	urpose of		
	C)	Highlight the importa		Systems. Expl	ain the struc	ture of an	Operating		
		System. What is the purpose of					210		
	e) f)	Explain two-pass direct linking loader scheme with the help of a block diagram. Explain the features of PL/I that are relevant to system programming, with an example							
	,	from each.		-		•			
	g)	Explain why formal description of differen			mming lang	uages with	n a brief		
	h)	Recognize the tokens WCM: PROCE	s, uniform symbols EDURE (RATE, ST			ollowing co	ode:		
	2		RE (COST, RA			IXED BI	NARY(31)		
		STATIC; COST =	= RATE * (START	Γ – FINISH) +	2* RATE*(START –	FINISH –		
		100); RETURN (0		·	· ·				
		END;	·						
	i) j)	What is the utility of d What are the various							
	κ) ₂ Ι)	Explain different instr Explain address mod	uction formats of I	BM 360/370 m	achine.	10	210		
	· 7		moation using inst	i ucuori as uala					

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Part-III

(16)

(16)

Q3 Long Answer Type Questions (Answer Any Two out of Four) Q3 What are the three major areas in which the Operating System divides its services? Give examples and explain. 210 210 210 210 210 210 210 210 Q4 What are the various loader schemes? Explain each scheme with the help of a diagram.

Q5 Explain when variables are allocated and freed, with sufficient reasons, for each of the (16) following :

(a) Static ; (b) Controlled ; (c) Automatic ; (d) Based

Also highlight the similarities and differences between controlled and based storage.

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