

3 I	Ιo	urs / 100 M	arks	Seat No	•							
		Instructions :	(2) Answe(3) Assum(4) Mobile	estions are cor r each next m e suitable date e Phone, Page s are not perm	ain que a, if ne c r and a	estion c essar any oth	y. her El	ectron	ic Co	mmui	nicatio)n
]	Marks
1.	a)	Attempt any three	e :									12
		i) Draw and descri	ribe "Compil	e and go" load	ers.							
		ii) What is system	software? S	tate the goals o	fsyste	n soft	ware.					
		iii) Describe linear	search algori	thm with suitab	le exan	nple.						
		iv) Differentiate be	etween machi	ne independent	and ma	achine	depen	dent o	ptimiz	ation	•	
	b)	Attempt any one:										6
		i) Describe the Ex	-		and ope	erating	syste	n.				
		ii) Mention the fea	atures of a ma	ero facility.								
2.	Att	empt any two:										16
	i)	Explain pass I of as	sembler.									
	ii)	Sort the following r		_	ige sort	. Show	all th	e pass	es			
		102, 501, 704, 2										
		710, 113, 200, 2										
	iii)	Draw and explain the	he general mo	odel of compile	r.							
3.	Att	empt any four :										16
	i)	Define and describe	e assemblers	and compilers.								
	ii)	Describe Binary sea	arch algorithn	n with suitable	exampl	e.						
	iii)	Describe the lexical	l phase of con	npiler.								
	iv)	Describe about dyn	namic binders	.								
	v)	Compare top down	n parser and l	oottom up pars	er.							

	Marks
4. a) Attempt any three:	12
i) Describe the format of database of direct linking loaders.	
ii) Describe the Interpretation phase algorithm of compiler.	
iii) Describe the passes of a compiler.	
iv) Give the advantages and disadvantages of top down parser.	
b) Attempt any one:	6
i) Describe the two pass algorithm of macro.	
ii) Describe the role of a lexical and syntax analyzer.	
5. Attempt any two:	16
i) Draw and describe the design of absolute loaders.	
ii) Describe the optimization phase of a compiler.	
iii) Describe Hashing with suitable example.	
6. Attempt any four:	16
i) Describe Macro call within macros with suitable example.	
ii) Describe the data structure of assembler.	
iii) Explain about Relocating loaders.	
iv) Describe the syntax phase of compiler.	
v) How subroutine linkages are applied in loaders?	