().P. (Code: 19	9MC91	06											R	19	
J	Reg.	No:							Τ]				
			HART ICA I			neste	(AU r Sup	TON(oplem	OMOU nenta	JS) r y Ex						R	
ſ	ime:	3 hours				. 1	DATA	STR	UCI	IKES			M	lax. N	larks:	60	
					(An	swer a	all Fiv	re Unit UNI		12 = 6	0 Mar	ks)					
1	a)	Explair	1 Linea	r Data	a struct	ure wi	th exa	amples	5.								6M
	b)	Explair	n Non-J	Linear	Data s	structu	ire wit	th exam	mples								6M
								0]	R								
2	Wha	at are th	e vario	us pei	forma	nce m	easure	ements	for a	n arrag	/ list?			13			12M
3	Wha	at is stac	ck? Exj	olain a	any two	o appli	cation	UNI ns of s O	tack v	vith ex	ample	es.					12M
4	a)	What a	re the a	pplic	ations o	of que	ue?										6M
	b)	How to	store s	stack ı	ısing li	nked	list? E	Explain	n with	exam	ple.						6M
5	Wri	te insert	ion, de	letion	and se	archi	ng ope	UNIT		AVL ti	ees.						12M
								0]									~ ~
6	a)	What is	s a bina	ry sea	arch tre	e? Ho	w do	you in	isert a	n elen	ient in	to a bi	nary	searc	h tree?	?	6M
	b)	What is	s traver	sing?	Write	recurs	ive pr	ocedu	re for	in ord	er trav	versal i	in a b	inary	tree.		6M
								UNIT	Γ-IV								
7	Wri	te and e	xplain	Bubb	le Sort	Algor	ithm a	and als O I		l its ti	ne coi	mplexi	ity.				12M
8		at is sea nplexity	-	? Exp	olain B	inary	searc			with	exam	ple an	d als	o fino	d its t	ime	12M
0			a 1					UNI	Γ-V								
9	Exp	lain DF	S algor	ithm	with ex	ample	e.										12M
	_						÷	0]									
10	Defi	ne grap	h. Exp	lain v	arious	operat	ions c	on grap	ohs.								12M

*** END ***