Q.P. Code: 20ME3102									R20							
R	ea. No:			•							1	1				
	og. 110.															
	SIDDH	IARTI M	H INS .Tech	STITU I Yea	JTE O ar I Se	F EN (AU meste	GINE TON(er Reg	CERIN OMOU gular l	I G & JS) Exami	TECH inatio	INOL ns Jul	/OGY:: y-2021	PUT	ΓUR		
				A	ADVA	NCE	D FLU	JID D	YNA	MICS						
Т	ime: 3 hours					(Ther	mal Er	nginee	ring)					Max. N	Marks: 60	
				(An	iswer a	all Fiv	e Unit	ts 5 x 1	12 = 6	0 Mar	ks)					
							UNI	T-I								
1	How would	l you e	xplair	n the f	ollowi	ng:								L1	12M	
	(i) Fluids															
	(ii) Fluid st	atistics														
	(iii) Fluid d	ynami	CS													
1.3	(iv) Time li	ne					0	D								
2	Outline the	deriva	tion o	of cont	inuity	equat	ion by	n Using	integ	ral and	1 diffe	rential		L2	12M	
	approach.					e quan	LINIT.	гл						22		
2	Drovo Koly	in'a th	orom	with	tha ha	In of	UNI	<u>1-11</u>		ico oo	ntinu	us fun	tion	τc	121/	
3	and conserv	n s un vative l	odv f	forces	defini	ip of c tions	incula	lion p	lece w	ise co	nunuc	ous runc	non	LO	12111	
	und comber (anve	Joury 1	lorees	deriin		O	R								
4	Explain Ou	tline th	ne stre	am fu	nction	/ velo	ocity p	otenti	al app	roach.				L2	12M	
							UNIT	III-								
5	Discuss in a	detail a	bout t	the lar	ninar f	flow								L5	12M	
							0	R								
6	Prove the b	oundar	y laye	er equ	ation i	n lam	inar fl	ow						L6	12M	
							UNII	[-IV								
7	a) Define tu	irbulen	it flow	/. .:	- f 4 1	14	G							L1	12M	
	b) Explain (ine cha	racter	istics	of ture	oulent	now.	D								
8	Explain brid	eflv ab	out th	e lami	inar tu	rbuler	ot trans	sition						L1	12M	
		uo	2 til				UNI	Γ-V						21	A MILTE	
9	Evaluate the	e role d	ofexn	erime	nts in	engin	eering	with s	suitab	le exa	nples			L6	12M	
			P			8	0	R			r					
10	Discuss abo	out the	sourc	es of c	error in	n mea	surem	ents.						L5	12M	

*** END ***