Ç	Q.P.	Code: 20	HS084	8										R2(0	
Reg. No:]			
		SIDDH	IARTI	HINS	STITU	TE O		GINE TON(TECH	INOL	JOGY	:: PUT	rur	
		B.Tech	l Year	· I Se	meste	er Re				/	ary E	kamii	natior	ns May	-2022	
								CERIN						,		
						(0	Comm	on to	CE &	AGE)						
Τ	ime	e: 3 hours												Max	k. Marl	ks: 60
					(Ans	wer a	ll Five	e Units		2 = 6	0 Mar	ks)				
1	a	Explain to condition						ings v	vith n	ecessa	ry the	eory a	and w	rit the	L2	6M
	b													L4	6M	
								Ol								
2	a	Different													L2	6M
	b	Derive the case of F			-	~			lit.	ndary	maxir	na and	d mini	ma in	L3	6M
3	a	Define th	e follo	wing	i)coord	linatio	on nun	nber i	i)aton	nic pao	king	factor	iii) un	it cell	L1	6M
	b												L3	6M		
4	a	What are	miller	indic	es? Ou	tline t	he pro	ocedur	e to fi	nd the	mille	r indio	ces.		L2	6M
	b	Describe	the por	wder	method	l of X	-ray d	-							L2	6M
								UNIT								
5		Define ab	-							-	ession	n for it			L3	6M
	b	List the b	asic re	quire	ment o	f an ao	cousti	cally g Ol		all.					L1	6M
6	a	Outline th													L2	6M
	b	Summari	ze the a	applic	cations	of ult		c wav							L2	6M
7	a	Define str	ress. Ez	xplaiı	n the di	fferer	it type	s of st	resses						L2	6M
	b	Describe	the bel	navio	r of wi	re und	er inc		-						L2	6M
								01								
8	-	Deduce a	_												L4	6M
	b	What is Y rigidity m			dulus?	Obtai	n the o	UNIT		etwee	n You	ing's i	modul	us and	L4	6M
9	a	Explain Meissner's effect.												L2	6M	
	b	Distingui	sh betv	veen	Type-I	and T	ype-I	I supe	rcondu	uctors					L4	6M
								O	R							
10		Discuss the													L2	6M
	b	Explain the	he sol-	gel te	chniqu	e to sy	ynthes	sis nan	omate	rials.					L2	6M
							*	** 111	D +++							