	Reg	jistration No :					
210	Total Nu 210	umber of Pages	210 210	210	210	B.Tech <sup>2</sup> PEEL5403	210
210	210	Answer Questio	BRANCH : E Time Max	POWER QUA EE, ELECTRIC : 3 Hours Marks : 70 DDE : F097 compulsory and	LITY CAL d any FIVE from		210
	Q1		owing questions		untific your analysis	(2 x 10)	
	a) b) c)	Mention the cate 'Momentary over	sue is a consumer- egories of the trans er voltage' belongs appropriate term u	sients. s to which class			
210	210 d) e) f) g) h) i)	Draw the voltage Distinguish betw Explain the term Define the term Mention at least Explain the term	e wave form for 3 p veen notch and han flicker in power qu ground loop. two ambiguous te	ohase voltage ir monics uality. rm in the era of	electrical power of		210
210	Q2 <sup>10</sup> a) b)	Briefly discuss a	bout the <sup>2</sup> sag perfondards associated	rmance evaluat	tion indices.	<sup>210</sup> (5) (5)	210
	Q3 a) b)		st common events e principles of ove	•		(5) (5)	
210			/een surge arresto rious lightning pro			(5) Explain (5)	210
	Q5 a) b)		causes of harmon /een total harmonio		•	(5) tortion. (5)	
	Q6	methods to filter	f, how to locate the harmonics in t	the system.			
210	210 <b>Q7</b>	Mention different voltage sag mitigation techniques? Explain in detail				210 ail <b>(10)</b>	210
	Q8 a) b) c)	<ul> <li>a) Standards on Harmonics</li> <li>b) Current-limiting fuses</li> </ul>					
210	210	210	210	210	210	210	210