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AG		AG	AG	AG	AG	AG	AG	_
Code No: 132AA JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech I Year II Semester Examinations, April - 2018 ENGINEERING PHYSICS – II								
AG	Time	hours	(Common	to EEE, ECE, C	CSE/EIE, IT, E	TM)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	. Marks: 75	
	Note	Part A is Part B co	compulsory wonsists of 5 Unarries 10 marks a	ns two parts A and hich carries 25 its. Answer any and may have a, b	marks. Answe one full quest c as sub questi	tion from each	unit. Each	
			AG.	A PART-	$\mathbf{A} \triangle \mathbb{G}_{-}$	AG	(25 Marks)	A
	1.a) b) c) d) e)	Show that Explain Ho Write any Draw E-K	matter waves vel eisenberg uncerta	ocity is greater the inty principle. In soft direct band gother bails and gother bails briefly.	an the velocity	of light.	[2] [3] [2] [3]	
AG	f) g)/ h) i) j)	Show that Show that What is su What is na	$P = \underbrace{C_0}E_0(C_{r-1}).$ $\mu_r = 1 + \chi$ perconductivity no scale?	$\Delta (-)$	dent properties.	AG	(3) [2) [3] [2] [3]	
AG	2.a) b)			PART-I PART-I ergy of a particle terials based on b	in one dimension		(50 Marks) [6+4]	A
	3.a) b)	_	w de-Broglie's h ronig-Penny mo	ypothesis support	s the concept of	f the duality.	[4+6]	
AG	4.a) / b)	With neat		n of holes in the vin how Fermi et to temperature. OR				
	5.a)	levels varie	s with respect to	energy diagram forward bias and	reverse bias.	diode. Explain	how energy	
AG	b) 6.a) b)	Derive an e	xpression for ion	and p-type semic ic polarizability. dielectric materia OR	AG	AG	[5+5]	Δ
	7.a) b)			d behaviour with ernal fileds in die			[5+5]	
AG	_	\(\)	AG	AG	AG	AG	AG	A