8P		8R	8R	88	8	8	_ 8H	Z
Section 1		The same of the sa				R15		
	Code I	No: 124DH JAWAHAR	LAL NEHRU T	ECHNOLOGIC	AL UNIVERSI	TY HYDERABA	AD	
B.Tech II Year II Semester Examinations, April - 2018 PRINCIPLES OF ELECTRICAL ENGINEERING								
8 R	Time:	O D 3 Hours	PRINCIPLES	(Common to ECE,	ETM	Max. Mark	cs: 75	8
	Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part A is compulsory which carries 25 marks. Answer all question from each unit.							
		Part A is compulsory which carries 25 marks and part A is compulsory which car						
88		8R	8R	PART- A	8R	SK	SR 5 Marks)	8
	1 -1	What is tra	nsient response of	f circuit?		,	[2]	
	1.a) b)	What are in	itial conditions?	Explain their signi	ificance.		[3] [2]	
	c)	** *1	atricol notivio	e the symmetry		conditions in	terms of	· seene
\cap \square	d)	z-paramete	rs. \bigcirc		QD.	RD	$ \begin{array}{c c} (31) \\ (21) \end{array} $	->
OK	e)	What is cha	aracteristic imped ifferent types of f	ance?			[3]	³ 5.02.044.040
	f) g)	What is the	basic principle o	f DC generator?			[2]	
	h)	List out the	different types opplications of step	f DC motor.			[3] [2]	
	i) j)	Draw the N	Jo-load vector dia	gram of 1-\psi trans	former.	,	[3]	, manus
88	J /	88	8R	PART-B	- 8.R		50 Marks)	
2.a) Determine the current i for $t \ge 0$ if initial current $i(0) = 1$ for the circuit shown in Figure 1.								
				4Ω				
88	e de la companya de l	8R	8 P		3 24	88	8R	
Figure: 1 b) Switch is opened at $t = 0$ in the circuit shown in Figure 2. Then find the current 'i'. [5+5]								
	b)	Switch is C	ppened at t = 0 m	t=0	j			
88		8R	84	\$ 10:	Ω 33H			C
			15 V 🕂	-	i			
85)	88	88	Figure: 2		8R	88	1
	M							

