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## 111 Semester Diploma Examination, April/May-2017

## **ANALOG ELECTRONICS CIRCUITS**

Tin	ie : 3	Hours   [ N	Max. Marks	: 100
Note	e:	<ul><li>(i) Answer any SIX questions from Part-A.</li><li>(ii) Answer any SEVEN full questions from Part-B.</li></ul>		
		PART - A		
1.	Exp	plain the working of ON-Line UPS.		5
2.	Ske	tch and explain full wave Centre tapped rectifier circuit.	BE	TA CONSOLE!
3.	Def	ine biasing of BJT and explain the need for biasing.		Diploma - [All Branches]
4.	Exp	plain the operation of transformer coupled class-A power amplifie	r. 😽	3-5
5.	Exp	plain the block diagram of OP-amp.		5 Diploma Question Papers [2015-
6.	List	any 5 ideal characteristics of OP-amp.		19] Beta Concle Education
7.	List	any 5 advantages of active filter over passive filters.		5
8.	Exp	plain the operation of positive clamper circuit.		5
9.	Des	scribe how oscillations develop in LC tank circuit with a suitable s	sketch.	5
		PART - B		
10.	(a)	Describe the block diagram of regulated DC power supply.		5
	(b)	Show mathematically the ripple factor of a half wave rectifier is	s 1.21.	5
11.	(a)	Explain the working of $\pi$ -filter with Half wave rectifier.		5
	(b)	Explain IC voltage regulator using LM 317.		5
		1 of 2	{Turn	over