SKY IS THE	Shree H.N.Shukla group of colleges PHYSICS F.Y.B.Sc. (Sem. II) (CBCS) Unit Test examination PAPER- 201 UNIT - 2 : SEMICONDUCTOR AND TRANSISTOR DATE : Total marks :30 Instructions: All questions are compulsory. The right side figure indicates total marks of the question. Draw the figure wherever necessary. Write answers of all the questions in main answer sheets.		
	SECTION-A		
	Q.1: One	e marks questions:	[5 MARKS]
	1	What is Rectifier?	
	2	What is break dwon voltage of p-n junction diode?	
	3	What is called Ripple in rectification?	
	4	What is transistor ?	
	5	Draw the symbol of N-P-N and P-N-P transistor.	
		SECTION – B	
	Q.2 (A): Short Questions: Write all three : [2 Marks each] [6 MARKS]		
	1	What is voltage stabilization? Why it is necessary?	
	2	State the relation between α and β .	
	3	Explain Half wave rectifier.	
	Q.2 (B) :	Short questions: Write all three: [3 Marks each]	[9 MARKS]
	1	Explain the working of a diode as a half wave rectifie	r.
	2	Give the comparison of rectifier.	
	3	Explain input characteristic of C-E transistor connect	ion.
	Q.2 (C): Write Detail Note on [Any two]: [5 Marks each] [10 MARKS]		
	1	Explain Capacitor filter.	
	2	Describe transistor working of N-P-N transistor.	
	3	Discuss the structure of transistor.	
	4	Explain Chock input filter.	