Shree H.N.Shukla group of colleges	
B SKY IS THE	PHYSICS
	S.Y.B.Sc. (Sem. III) (CBCS)
	Unit Test examination
SHUKLA GROUP OF	PAPER- 301
	UNIT - 4; 5 : TRANSISTOR BIASING & SINGLE STAGE AMPLIFIER
DATE :	TOTAL MARKS : 30
Instructio	ons: 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	marks questions: [5 MARKS ]
1	Transistor biasing represents conditions.
2	Operating point represents
3	Transistor biasing is generally provided by a
4	The transistor should have input impedence .
-	
5	The purpose of d.c. condition in a transistor is to
	SECTION – B
Q.2 (A): Short Questions: Write all three : [2 Marks each] [6 MARKS]	
1	Explain single stage ampifier.
2	Define : fequency response
3	What is thermal runway?
Q.2 (B) : Short questions: Write all three: [3 Marks each] [9 MARKS]	
_	
1	Explain 180° phase reversal with the help of graphical representation.
2	Explain classification of amplifiers.
3	Mention step to design for transistor biasing
Q.2 (C): Write Detail Note on [Any two]: [5 Marks each] [10 MARKS]	
1	Draw the circuit of a single stage amplifier and explain the functions of its various elements .
2	Explain practical circuit of transistor amplifier with their various circuit element.
3	Explain voltage divider biasing method .
4	Explain base resistor method with their advantages & disadvantages.