ELECTRONIC DEVICES AND CIRCUITS WORKSHEET-2: Bipolar Junction Transistor (BJT)

1. What is the left hand section of a junction transistor called?

	d.	Dase		
		Collector		
		Emitter		
	d.	Depletion region		
2.	In a bipolar transistor base collector junction has			
	a.	Forward bias		
	b.	Reverse bias		
		Zero bias		
		Zero or forward bias		
3.	In whi	ch region transistor act as a closed switch		
	a.	Inverted region		
	b.	Active region		
	c.	Cut off region		
	d.	Saturated region		
4.	In an N	IPN transistor, the arrow is pointed towards		
		Emitter		
		Collector		
		Base		
		None of the above		
5.		Cutoff region, the transistor acts like a		
		Closed switch		
		Open switch		
		Amplifier		
_		None of the above		
6.		emitter-base junction is forward biased and the collector-base junction is reverse		
		, what will be the region of operation for a transistor?		
		Cut off region Saturated region		
		Inverted region		
		Active region		
7.	The transfer of a signal in a transistor is			
		Low to high resistance		
		High to low resistance		
	c.	Collector to base junction		
	d.	Emitter to base junction		
8.	BJT stands for			
	a.	Bi-Junction Transfer		
	b.	Blue Junction Transistor		
	c.	Bipolar Junction Transistor		
	d.	Base Junction Transistor		

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	9.	The do	ped region in a transistor are		
		a.	Emitter and Collector		
			Emitter and Base		
		c.	Collector and Base		
		d.	Emitter, Collector and Base		
	10.	Which	region of the transistor is highly doped?		
		a.	Emitter		
			Base		
			Collector		
		_	Both Emitter and Collector		
	11.		IPN transistor, the arrow is pointed towards		
			Emitter		
			Collector		
			Base		
	12		None of the above		
	12.		gest current flows of a bipolar transistor occurs In emitter		
		_	In base		
			In collector		
			Through emitter- collector		
	12		ped region in a transistor are		
	15.		Emitter and Collector		
			Emitter and Base		
			Collector and Base		
			Emitter, Collector and Base		
	14.		saturation region, the transistor acts like a		
		a.			
		b.	Open switch		
			Amplifier		
		d.	None of the above		
15. In which one of the following configuration voltage gains is greater than or					
		a.	Common collector		
		b.	Common emitter		
		c.	Common base		
		d.	None of these		
	_				
Fill	in t	he Bla	nks		
	1.0	In ICEC) What do as the subscript CEO mean		
	16.	In ICEC) What does the subscript CEO mean_		
	17.	The a	pplication of CC configured transistor is		
	4.0	***			
	18. When does the transistor act like an open switch?				
	19. The relation between α and β is				
	20. The AC current gain in a common base configuration is				
	21.	Beta in	transistor represents		

22. Input resistance of common base configuration is_____



23. In the active state, the emitter-base junction has a higher resistance than the collector-base junction. True| False

24. When does the transistor act like an open switch	
25. The transistor terminals are	
26. In CB configuration the current gain of the transistor is	
27 region is very lightly doped and very thin.	
28. In region, emitter-base junction is forward biased and the collector-base junction reverse biased	ı is
29. Common Collector is also called as	
30. The symbol of NPN transistor is	