"Dissemination of Education for Knowledge, Science and Culture"

- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur

(Autonomous)

Department of Physics

ICT based CIE

on

B.Sc. III: Internal Examination of Semiconductor Devices and Instrumentation

Conducted by

Dr. M. M. Karanjkar

on

Day: Thursday, Date: 21/01/2021

(2020 - 21)

B.Sc III SEM VI, Examination 2020

-	[Semiconductor Devices and Instrumentation] Day: Thursday Date: 21/01/2021 Total marks: 50.		
	Solve any 25. Idicates required question Email *		
2.	Name *		
3.	Seat Number *		
4.	PRN Number *		
5.	is an electronic device which is capable wavefome. Mark only one oval.	to give visual indication of a signal	*
	CRO		
	CRT		
	VTVM		
	COR		

6.	The arrangement of the electrodes which produce a focused beam of electrons is called the	*
	Mark only one oval.	
	Electron Gun	
	Electron Tube	
	electric tube	
	electronic gun	
7.	The inner wall of the CRT is coated with material. *	
	Mark only one oval.	
	Zinc chloride	
	Phosphor	
	Calcium	
	florescent	
8.	The gain of the vertical amplifier can be controlled by the *	
	Mark only one oval.	
	calcium	
	attenuator	
	aquadag	
	phosphor	

9.	The gain of the vertical amplifier is calibrated in terms of *
	Mark only one oval.
	Voltage
	current
	potential
	deflection sensitivity
10.	A circuit which produces electric oscillations of any desired frequency is known as *
	Mark only one oval.
	oscillatory circuit
	amplifier
	frequency generator
	Op-amp
11	Taula sina itauna da ana ang ang illatian ang t
11.	Tank circuit produces oscillations. *
	Mark only one oval.
	damped
	un damped
	sinusoidal
	square

12.	In phase shift oscillator, the feedback factor β is*
	Mark only one oval.
13.	In oscillator, two capacitors are placed across a common inductor. *
	Mark only one oval. Phase shift
	Colpitt's
	Wein-bridge crystal
14.	oscillators are used in commercial signal generator. *
	Mark only one oval.
	Phase shift
	Colpitt's
	Wein-bridge
	crystal

15.	type of differential amplifier is commonly used in CE amplifier. *
	Mark only one oval.
	Double ended input and output
	Single Double ended input and Double ended output
	Double ended input and Single ended output
	Single ended input and output
16.	CMMR stands for *
	Mark only one oval.
	Common mode referential ratio
	Common mode reference ratio
	Common mode rejection ratio
	Commercial mode reference ratio
17.	Ideal value of CMMR isdB. *
	Mark only one oval.
	80
	90
	100

- 1	8.	The frequency at which the voltage gain equals to 1 is called as *
		Mark only one oval.
		unit frequency average frequency standard frequency unity gain frequency
1	9.	feedback provides the stabilization of the voltage gain. *
		Mark only one oval.
		Negative
		positive
		real
		virtual
2	0.	is a two state circuit that can remain in either state indefinitely. *
		Mark only one oval.
		Flip-flop
		Gate
		Counter
		clock

21.	is a logic circuit that adds 2 binary digits a time. *
	Mark only one oval.
	Full adder
	Half adder
	flip-flop
	gates
22.	is a refinement of R-S flip-flop. *
	Mark only one oval.
	J-K
	\bigcirc D
	\bigcirc T
	All
23.	If all input bits of the number are applied simultaneously in parallel, the adder is *called as adder.
	Mark only one oval.
	half
	full
	coupled
	parallel

24.	is a logic circuit with one or more input signals, but only one output signals. *
	Mark only one oval.
	gate
	counter
	number
	flip-flop
25.	UJT is has *
	Mark only one oval.
	anode, cathode and gate
	two bases and one emitter
	two anodes and one gate
	anode, cathode and two gates
26.	is the emitter voltage at the valley point. *
	Mark only one oval.
	peak to peak
	valley point voltage
	base voltage
	none

27.	is the region where UJT does not receive enough voltage to turn on. *	
	Mark only one oval.	
	cut off valley point saturation all of above.	
28.	is the region where applied voltage to the emitter increases gradually.	*
	Mark only one oval.	
	cut off negative resistance	
	saturation	
	all of above	
29.	UJT can be used as *	
	Mark only one oval.	
	amplifier	
	rectifier	
	sweep generator	
	inverter	

30.	In pinch off region, JFET behaves like a*	
	Mark only one oval.	
	constant voltage source	
	constant current source	
	voltage drop across channel	
	gate reverse bias	
31.	In a JFET drain current is maximum when VGS is*	
	Mark only one oval.	
	Zero	
	negative	
	positive	
	equal to Vp	
32.	a 'V' shaped opposite polarity material built near a JFET channel center is called the	*
	Mark only one oval.	
	gate	
	block	
	drain	
	heatsink	

33.	For a JFET the voltage VDS at which ID become essentially constant is the *
	Mark only one oval.
	pinch-off voltage cut-off voltage
	breakdown voltage ohmic voltage
34.	Which of the following rating appear in the specification sheet for FET * Mark only one oval.
	voltage between specific terminals current level power dissipation all of above

This content is neither created nor endorsed by Google.

Google Forms

B.Sc III SEM VI, Examination 2020

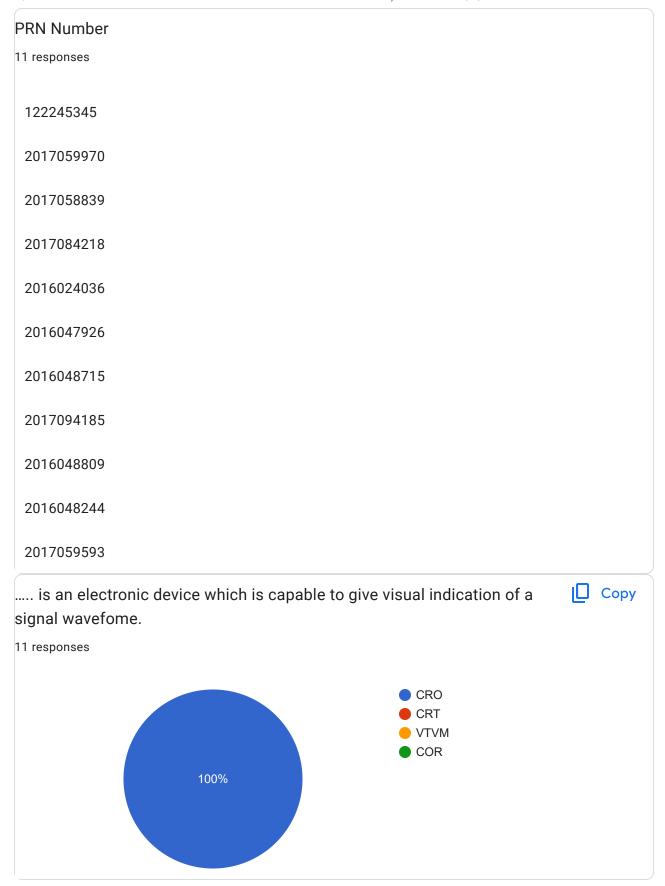
11 responses

Publish analytics					
Name					
11 responses					
Mohsin Mull					
Shubham Shivanand Mali					
Vinay Dilip Shinde					
Rutika balasaheb Gangadhare					
Patil Amar Shivaji					
Kamble Pranav Kamble					
Ghadage Kunal Gundopant					
BUNE HARSHVARDHAN CHANDARKANT					
Shakti Ravindra Chile					
Akash Sadashiv Dinde					
Sourabh kiran joshi					

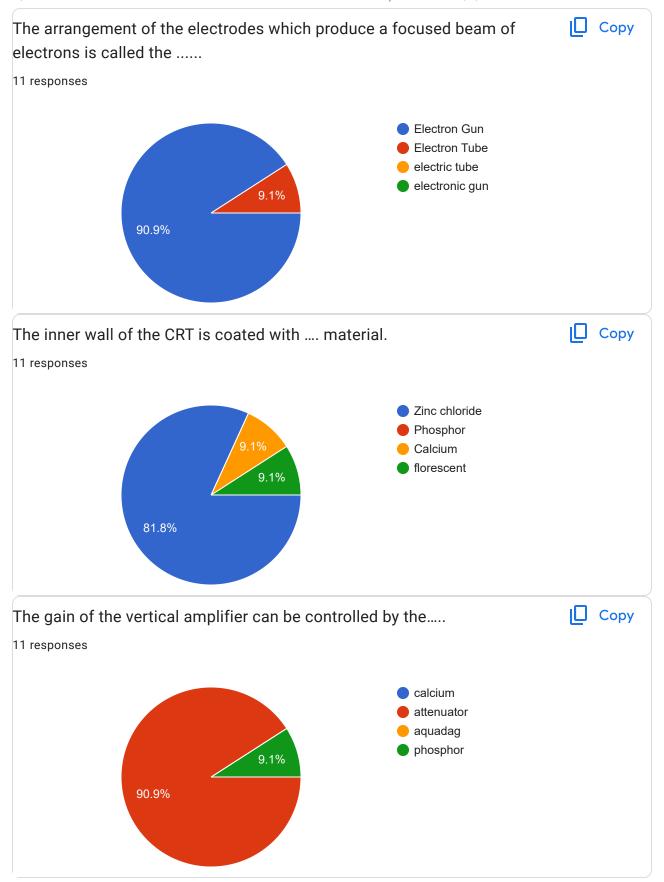


Seat Number			
11 responses			
1234			
30361			
30067			
30070			
30283			
30284			
30282			
30285			
30071			
30035			
30034			

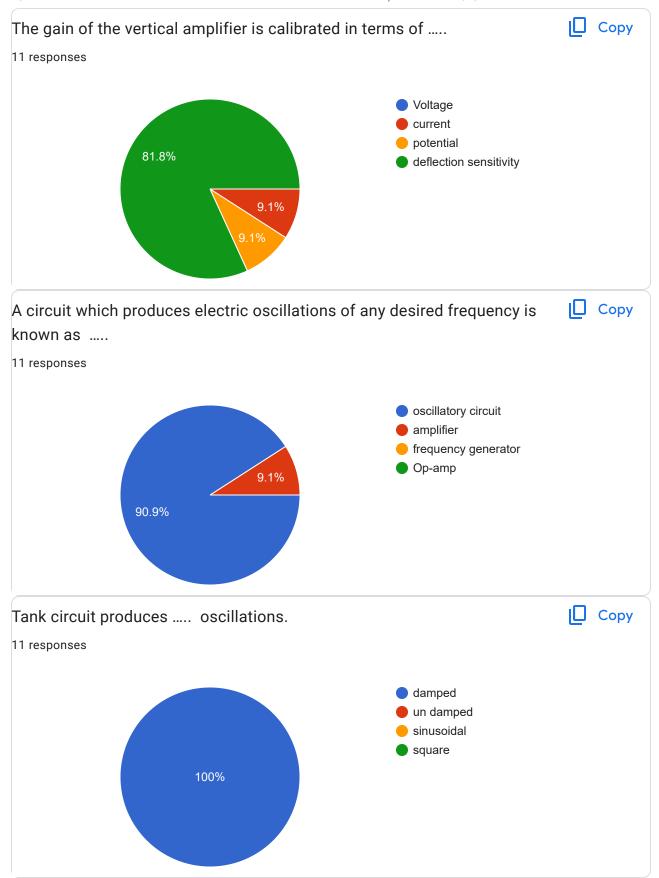




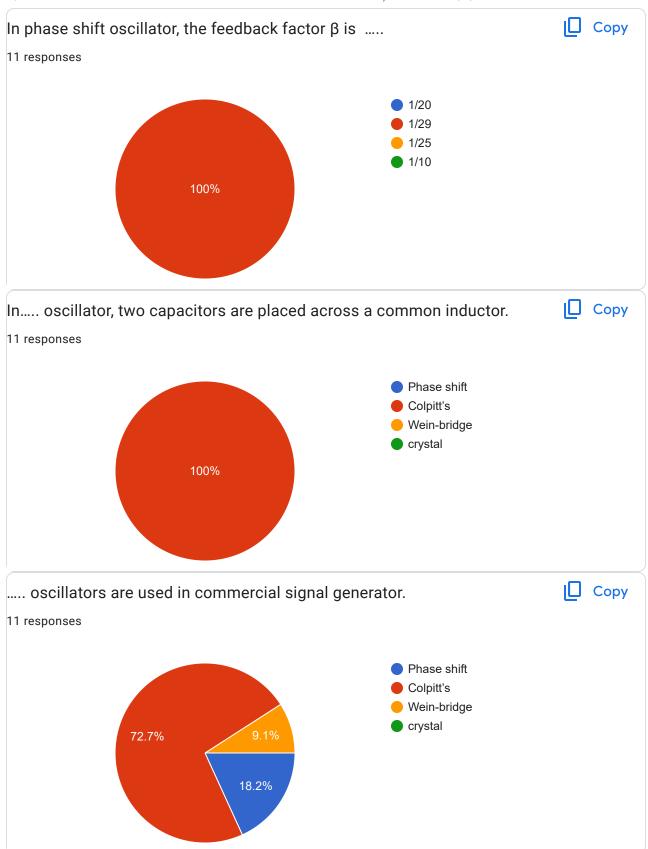




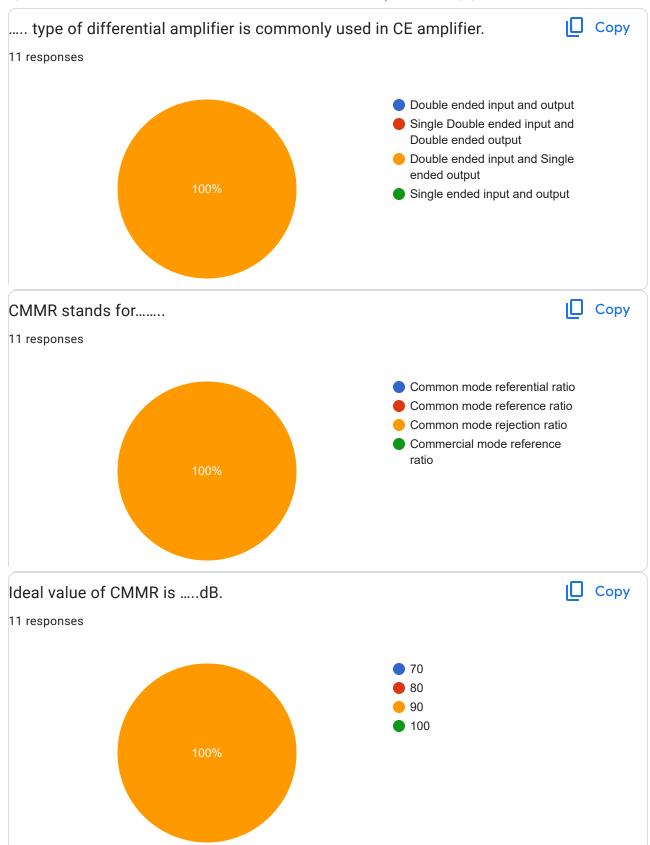




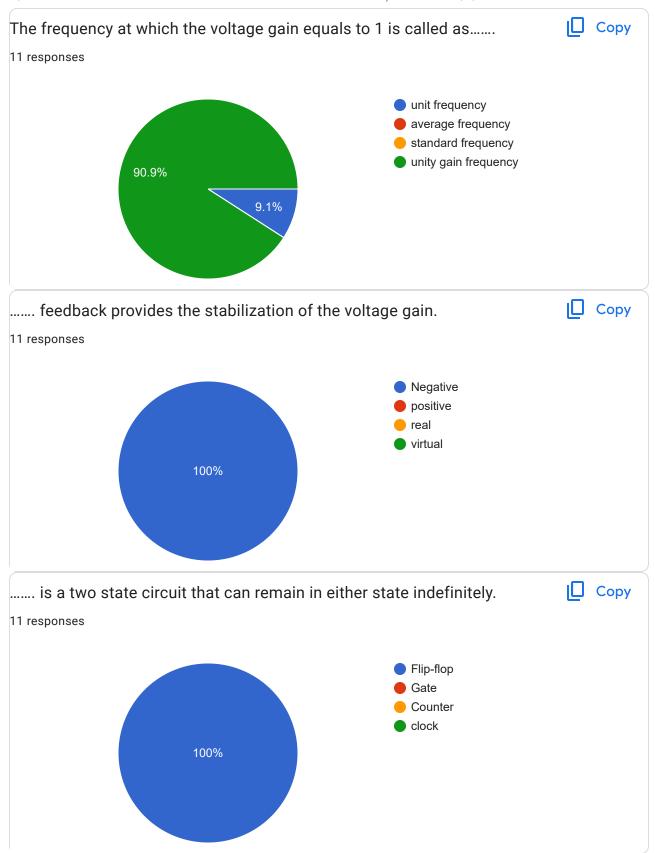




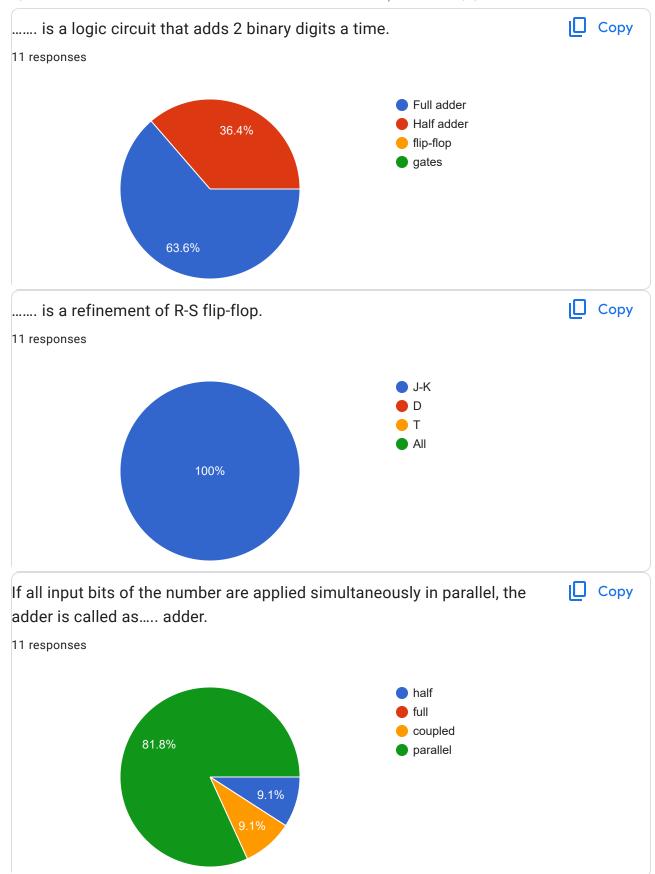




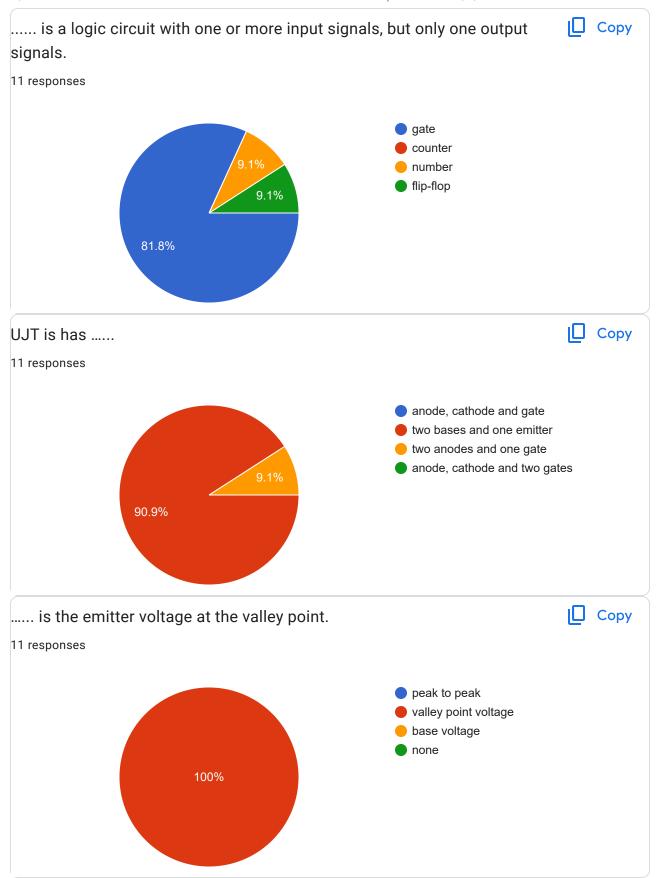




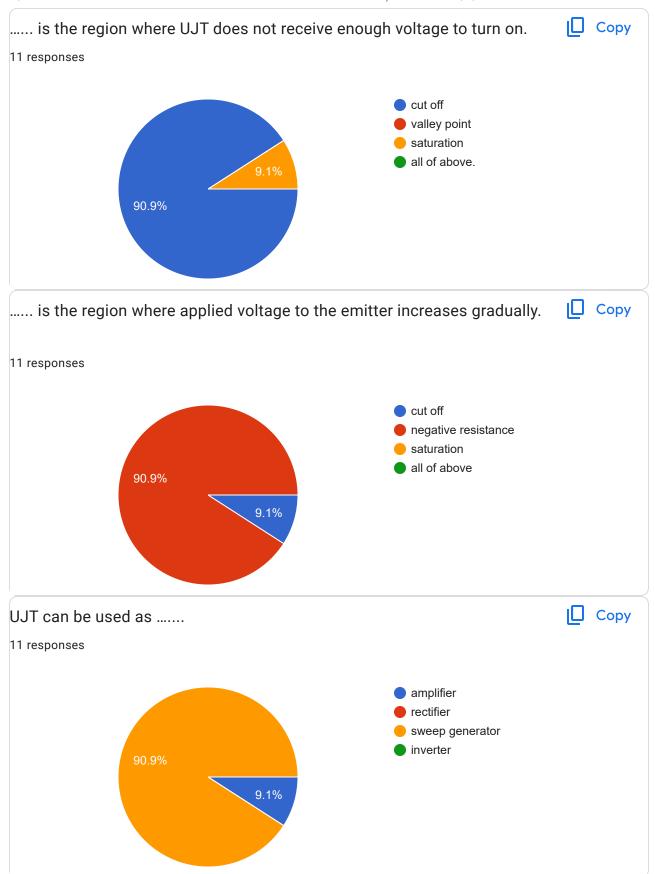




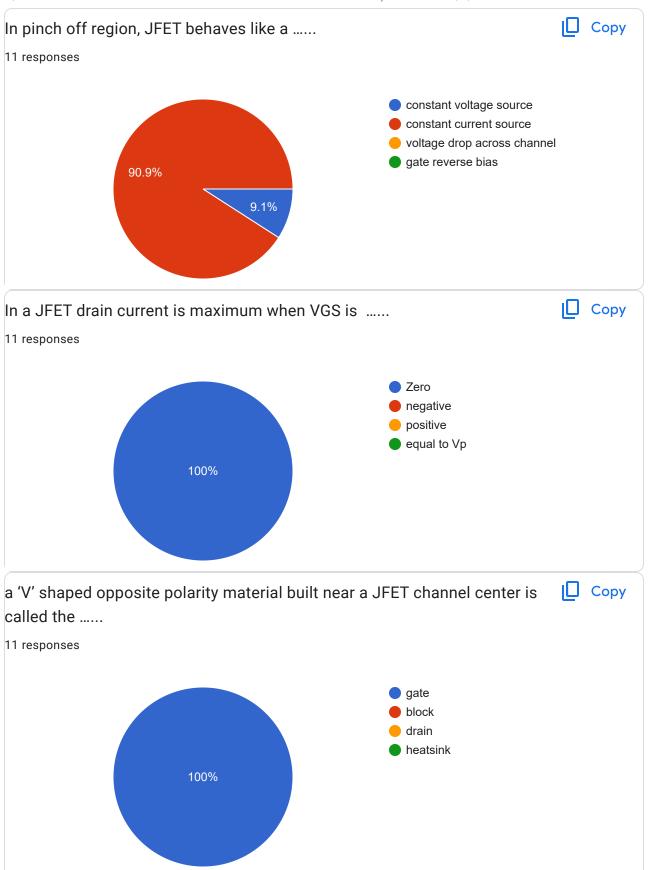




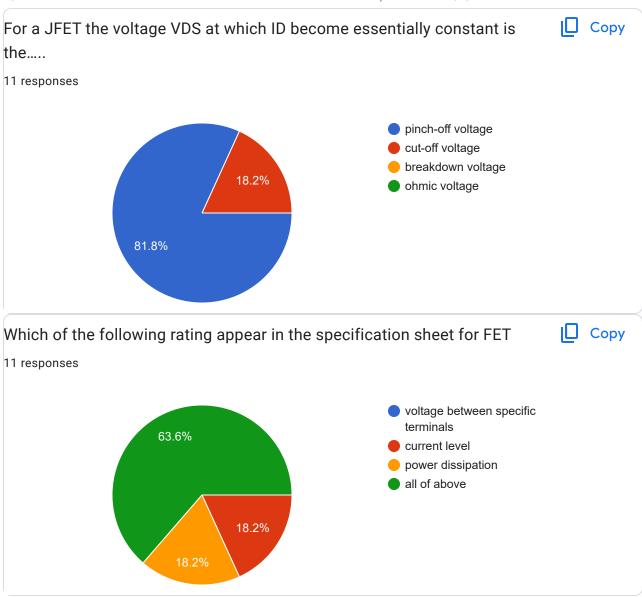












This content is neither created nor endorsed by Google. Report Abuse - Terms of Service - Privacy Policy

Google Forms



