Vimukt Jati seva Samitee's

Gramin (ACS) Mahavidyalaya Vasantnagar Tq. Mukhed Dist. Nanded

DEPARTMENT OF PHYSICS

Date: 07/09/2017

List of Selected Students

B.Sc. T.Y. 2017-18

Sr. No.	Name of the Students	Sign.
1	Bardapure A.M.	Bar
2	Jayebhaye M.M.	21110
3	Mundhe M.V.	minnghe
4	Singnath M.V.	3Wh
5	Gaikwad A.A.	Galleman
6	Bondalwad S.V.	Rond
7	Chandapure L.B.	CLB
8	Dongare B.S.	Dandaur -
9	Pawar S.L.	Comme
10	Ku. Rathod V.D.	Aalthort BAY
11	Ku. Sambutwad A.V.	
12	Sonkamble P.S.	ps son kable
13	Jadhav S.A.	Bis M.

andy

Principal
Gramin Arts. Comm. & Science
Mahaviriyalaya. Vasantnagar (Kotgya)
Tq. Mukhod Dist. Nanded (M.S)

Gramin (ACS) Mahavidyalaya Vasantnagar

Name of the Course: Addon Course Cet hificate Course on

ote: 1) All Constlant on Com-

Year: 2017-18

Objectives of the Course :-

- To understand basic concept of semiconductors, Semiconductor diodes & their characteristics.
- To provide a broad coverage of solid state devices
- 3) Describe the motion of free electrons & vacancies through a P N junction.
- 4) To study & verify the fundamental of P N junction diode in forward bias.
- 5) Acquire the fundamental knowledge & exposes to

Out comes :-

After completing this course students will be able to

- Identify & understands construction & properties of P N junction diode, zener diode light emitting diode photodiode varactor diode & their V-I characteristics.
- Become aware of the general characteristics of three important semiconductor materials.
- Test semiconductor diodes range small signal diode, zener diode

Opportunity :-

- 1) There are many career of opportunities in designing & manufacturing diode
- 2) Silicon diode in a D.C Circuit Assembly using connecters blocks.
- Great strides have been mode in the manufacturing techniques.

Associated Agency:- Sheshadri Globally Educational Competency technique (SGECT)
Fees: Unpaid course.

Certificate Details: - Certificate course will be given to the students by sheshadri Global Educational Technique (SGECT)

Course Contents :- Semiconductor Diodes

Unit 1 :- Semiconductor Diodes, Resistance of crystal diode, crystal diode equivalent circuit, crystal diode rectifiers filter circuits.

Unit 2:- Semiconductor (Definition) type of semiconductor, P N junction diode, light emitting diode zener diode, photo diode, varactor diode & their characteristics

Books Recommended :-1) Principles of Electronics, - V.K. Mehta, Rohit Mehta, S chand 11th Revised Edition 2008 New Delhi 110055

2) Electronics Circuit :- Hand book & design & application, U. Tietze 2008 springer.

Dr. Grim m. A.

Grama Ave. Commel Science Mahavid Jalaya, Vananthaper (Keegyel) Tq. Mukinal Dol. Pended

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Name of the Course : Addon Course Name of the Topic : Semi Conductor Diodes Name of the Student ;

1)

Year: 2017-18 Mars: 50 Time: 1 Hr.

Note: 1) All Questions are Compulsory.
2) Each Questions Two Marks.

A Crystal diode has ----- PN junction.

	a) One b) Two	c) Three	d) None of the above	
()	A Crystal diode has forward i	esistance of t	the order of	
	a) K A b) A	c) M a	d) None of the above	
3)	The reverse current in a diode is of the order of			
	a) KA b) MA	c) / A	d) A	
4)	A Crystal diode is used as a) An amplifier b) a c) an oscillator d) A	rectifier		
5)		l diode is due b) Majority d) None of t	enteer	
6)	When the crystal diode current			
		c) Poor	d) Reverse	
7)	A Crystal diode is a device.			
	a) Non linear b) bilateria	c) line	ear d)None of the above	
8)	AZener diode has P N junction.			
	a) One b) Two	c) Three	d) None	
9)	A Zener diode is used as			
	a) An amplifier b) A	voltage regula	ator	
	c) a rectifier d) M	ultivibrator		
10)	Zener diode is always a) Reverse c) Either reverse or forward	b) Forward		
11)	Zener diode Utilizes characteristics for its operations.			
	a) Forward b) Reverse	c) Bot	th a & b d)None	

12)	Zener diode is device.				
	a) Non linear b) linear c) a amplifying d) None				
13)	Zener diode has breakdown voltage.				
	a) Undefined b) Sharp c) Zero d) None				
14)	The ripple factor of a half-wave rectifier is				
	a) 2 b) 1.21 c) 2.5 d) 0.48				
15)	The maximum efficiency of a half-wave rectifier is				
	a) 4.06 % b) 81.2% c) 50 % d) 25%				
16)	Zener diode diodes are used primarily as				
	a) amplifier b) Voltage Regulator c) rectifier d) oscillator				
17)	A P N junction that radiates energy as light instead of as heat is called a-				
	a)LED b) Photo diode c) Photo celld) Zener diode				
18)	The varactor is usually				
	a) Forward biased b) Reverse biased				
10)	c) unbiased d) in the breakdown region				
19)	A Photo diode is normally a) Forward biased b) Reverse biased				
	c) Neither forward by nor revere biased d) Emitting diode				
20)	The device associated with voltage - controlled capacitors is				
	a) LED b) Photo diode c) Varactor diode d) Zener diode				
21)	When the reverse voltage increase the junction capacitance is				
	a) Decreases b) increase c) Stays the same d) has more bandwith				
22)	When the light increase the reverse current in a photo diode				
22)	a) increase b) decrease c) unaffected d) None				
23)	is a diode that gives off visible light when forward biased.				
	a) LED b) Zener diode c) Photo diode d) None				
24)	A junction diode which acts as a variable capacitor under changing reverse bias				
	is called				
	a) Zener diode b) Varactor diode c) LED d) None				
25)	The forward voltage drop across a silicon diode is about				
	a) 2.5 V b) 3 V c) 10 V d) 0.7 V				

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