

### ANJUMAN-I-ISLAM'S

### KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

Approved by : All India Council for Technical Education, Council of Architecture, Pharmacy Council of India New Delhi, Recognised by : Directorate of Technical Education, Govt. of Maharoshtra, Affiliated to : University of Mumbai.

 ■ SCHOOL OF ENGINEERING & TECHNOLOGY □ SCHOOL OF PHARMACY □ SCHOOL OF ARCHITECTURE

### DEPARTMENT OF ELECTRICAL ENGINEERING

DEPARTMENT OF ELECTRICAL	ENGINEERING		
CLASS:- THIRD YEAR	SEM:- V		
SUBJECT:- POWER ELECTRONICS	DATE:-		
DURATION:- 1 HOUR	MARKS:- 20		
CLASS TEST 01			
Q.01 Attempt any TWO: (10 Marks)	Marks	CO	
1 Explain Dynamic characteristic of SCR.	05	CO	
2 Explain two transistor model of SCR.	05	CO1	
3 Explain class C model.	05	CO2	
Q.02 Attempt any ONE: (10 Marks)			
1 Explain IGBT.			
	05	CO <sub>2</sub>	
Somi-converter.	05	CO3	
3 Explain different MOSFET in detail.	05	CO2	

In novative Teaching - Exuberant Learning

Vision: To be the most sought after academic, research and practice based department of Electrical Engineering that others would wish to emulate.



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SCHOOL OF PHARMACY

## DEPARTMENT OF ELECTRICAL ENGINEERING

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CL	CLASS:- T.E SEM:- V	V	
US	SE	DATE:- 22/08/2017	017
DU	DURATION:- 1Hr MARKS:- 20	S:- 20	
	CLASS TEST 01		
0.0	O.01 Attempt any TWO: (14 Marks)	Marks CO	CO
a	Explain different types of fuses available. Explain construction details of HRC fuse.	07	[CO2]
6	Explain arc quenching techniques in CB.	07	[CO2]
0	With Neat diagram explain principle of Induction Disc Relay.	07	[CO2]
0.0	Q.02 Attempt any ONE: (06 Marks)		
go .	a Write a note on CT.	06	[CO1]
ь	b Write a note on Contactors.	06	[CO1]
		- 1	

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### DEPARTMENT OF ELECTRICAL ENGINEERING

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SE.	M:- V	
CLASS:- TE  DA	TE:- /08/17	
SUBJECT:- EM-II  DURATION:- 1 HOUR  MA	ARKS:- 20	
CLASS TEST 01		
Q.01 Attempt any ONE out of TWO: (10 Marks)	Mark	CO
1 Explain Scott Connection of transformer	10	CO1
2 Explain Harmonics in three phase transformer connections	10	CO1
Q.01 Attempt any TWO out of THREE: (10 Marks)	Mark	
1 Draw connection and phasor diagram of Dy11 and Yy6	5	CO3
2 Explain need of Parallel operations of transformer and write necessary	5	CO3
condition for parallel operations.	147	
Explain open delta connection in short.	- 5	CO1



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	DEPARTMENT OF ELECTRICAL ENGINEERING			
CLA	SS:- THIRD YEAR SE	M:- V		
-		TE:- 23/0	8/2017	
		MARKS:- 20		
	CLASS TEST 01			
Q.0	1 Attempt any TWO QUESTIONS: (10 Marks)		Marks	СО
A			05	CO2
В	Given the general vector $\overrightarrow{A} = 2 \cos \theta / r^3 a \overrightarrow{r} + \sin \theta / r^3 a \overrightarrow{\theta}$ Show that curl of $\overrightarrow{A}$ vector is everywhere Zero.		05	CO1
С	Find the volume defind by the region $4 \le r \le 6$ ; $30^{0} \le \varphi \le 60^{0}$ ; $2 \le z \le 5$ .		05	CO1
2.0	2 Attempt any TWO QUESTIONS: (10 Marks)			
Α	Three point charges $Q_1$ = -6 $\mu$ C at1(1,0,0) $Q_2$ = 10 $\mu$ C at (2,0,0) $Q_3$ = 4 $\mu$ C at(4,0,0) Find force on each charge. Which charge has greatest magnitude of force.	vector	05	CO3
B Find Electric field intensity at point p(1,1,1) caused by four identical 3 nano Coulomb point charges located at $p_1(1,1,0)$ $p_2(-1,1,0)$ $p_3(-1,-1,0)$ $p_4(1,-1,0)$		05	CO3	
С	State Gauss law and prove that electric flux passing through any closed surface it to the charge enclosed by that surface.	is equal	05	CO3



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### DEPARTMENT OF ELECTRICAL ENGINEERING

	DEPARTMENT OF ELECTRICAL ENGINEERING		
CL	ASS:- TE ELECTRICAL SEM:- V		
SUI	BJECT:- COMMUNICATION ENGG DATE:-	24/08/20	17
DURATION:- 60 min. MARKS:		- 20	
	CLASS TEST 01		
Q.0	1 Attempt any TWO: (10 Marks)	Marks	CO
A)	Explain how Power and Bandwidth saving is achieved using SSB system.	(04)	02
B)	Explain need for modulation.	(04)	01
C)	Derive AM wave Equation	(04)	02
Q.0	2 Attempt any ONE: (12 Marks)		
A)	Explain a method for generation of DSB-SC signal.	(06)	02
B) Explain a method for generation of SSB signal.		(06)	01
C) Explain TRF Receiver and disadvantages associated with TRF Receiver. Also explain Superhetrodyne Receiver.		(06)	02