

KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

Approved by : All India Council for Technical Education, Council of Architecture, Pharmocy 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

RE	V:00 QUESTION PAPER CLASS TEST 02	EXM-04 B	
CLASS	S:-BE SEM:-VII		
COUR	SE:- CONTROL SYSTEM II DATE:-24	/ 10/2018	
DURA	TION:- 60 min. MARKS:-	20	
Q.01	Attempt any two: (08 Marks)	Marks	СО
a)	Explain the scan cycle of PLC	4	CO4
b)	Explain jump and label operation in PLC.	4	CO4
c)	Explain architecture of PLC.	4	C04
Q.02	Attempt any two: (12 Marks)		
a)	Explain the program files and data files in PLC.	6	CO5
b)	Explain timers of PLC with example.	6	CO5
c)	Explain counters of PLC	6	CO5



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 Maharashtra, Affiliated to : University of Mumbai.

SCHOOL OF ENGINEERING & TECHNOLOGY

☐ SCHOOL OF PHARMACY

☐ SCHOOL OF ARCHITECTURE

DEPARTMENT OF ELECTRICAL ENGINEERING

F	REV:00	QUESTION PAPER CLASS TEST 02	EXM	1-04 B	
CLA	SS:-BE		SEM:-VII		
COL	JRSE:-CON	TROL SYSTEM II	DATE:- / 10	/2018	
DUI	RATION:-	60 min.	MARKS:- 20		
Q.0	1 Attempt	any TWO: (08 Marks)		Marks	СО
a)	Explain t	he scan cycle of PLC		4	CO4
b)	Explain j	ump and label operation in PLC.		4	CO4
c) Explain architecture of PLC.			4	C04	
Q.02	2 Attempt	any TWO: (12 Marks)			
a)	Explain t	he program files and data files in PLC.		6	CO5
b)	Explain t	imers of PLC with example.	3.	6	CO5
c)	Explain co	ounters of PLC		6	CO5

CRITERION: 2.2.2, 3.2.2.

FILE NO: P25, P31

Innovative 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.



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 Maharashtra, Affiliated to : University of Mumbai. SCHOOL OF ENGINEERING & TECHNOLOGY

□ SCHOOŁ OF PHARMACY -

☐ SCHOOL OF ARCHITECTURE

DEPARTMENT OF ELECTRICAL ENGINEERING

REV:00 QUESTION PAPER CLASS TEST 02	: 4	EXM-04 B	
GLASS:-BE	SEM:-VII	***************************************	
COURSE:EMD	DATE:-	25/10/2018	
DURATION:- 60 min.	MARKS:-	20	**************************************
Q.1 Attempt any ONE. (08 Marks)	·	Marks	
a) A 11kw 3ph 6pole 50Hz,220v star connected induction motor has each containing 9 conductors.calculate bar & end ring current.the rotor bar is 64.the machine has efficiency of 0.86 & pf of 0.85 the may be assume as 85% of stator mm f.	e number of	8	CO5
(b) Derive output equation of ac machine.	,	8	CO4
Q.2 Attempt any TWO (12 Marks)			
a) Explain the effect of Dispersion coefficient on maximum power fa	ctor	6	Co5
(b) Explain factor affecting Size of machine		6	Co4
C) Explain total loading & specific loadings.		6	Co4



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 Maharachtra, Affiliated to : University of Mumbai.

 ■ SCHOOL OF ENGINEERING & TECHNOLOGY

□ SCHOOL OF PHARMACY

□ SCHOOL OF ARCHITECTURE

DEPARTMENT OF ELECTRICAL ENGINEERING

doues an eliterature service s					
RE	V:00	QUESTION PAPER CLASS TEST 02		EXM-04 B	
ÇLASS			SEM:-VII		
ÇOUR	RSE:EM	D	DATE:-	25/10/2018	
DURA	TION:- 6	50 min.	MARKS:-	20	
		any ONE. (08 Marks)	handan esikesian saan masanaan aan masanaan ee aa	Marks	o región menorane, como como como como como como como com
a)	each co	3ph 6pole 50Hz,220v star connected induction motor has 55 stontaining 9 conductors.calculate bar & end ring current.the number is 64.the machine has efficiency of 0.86 & pf of 0.85 the rotor assume as 85% of stator mm f.	ber of	8	CO5
b)	Derive	output equation of ac machine.	*	8	CO4
Q.2 A		any TWO (12 Marks)	T. I	to commence and control on the second control of	**************************************
; a)	Explain	the effect of Dispersion coefficient on maximum power factor	1	6	Co5
b)	Explain	factor affecting Size of machine	1	6	Co4
· C)	Explain	total loading & specific loadings.		6	Co4

FILE NO P25, P31 CRITERION: 2.2.2,3.2.2

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



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 Maharashtra, Affiliated to : University of Mumbal.

SCHOOL OF ENGINEERING & TECHNOLOGY

□ SCHOOL OF PHARMACY

□ SCHOOL OF ARCHITECTURE

DEPARTMENT OF ELECTRICAL ENGINEERING

REV:00	QUESTION PAPER CLASS TEST 02	EXM-04 B

CL	ASS:- BE	SEM:- VII		
	URSE:- HVDCT DATE:-		3 /10/18	
DU	RATION:- 60 min.	MARKS:-	20	
0.0	ONE (ONE L)		Marks	CO
Q.U	1 Attempt any ONE: (08 Marks)		Marks	
a)	a) Discuss desired features of control of HVDCT. Explain control characteristic of HVDC system under normal and abnormal conditions.		8	CO3
b)	Explain different types of faults in HVDC system. Explain single and double commutation failure with waveforms.			CO5
c) Explain causes and consequences of harmonics in HVDC systems. Explain the various types of filters used.			8	CO6
0.0	2 Attempt any TWO: (12 Marks)			
-		l- comto con	(CO4
a)	Explain two methods of Equidistant Pulse Control (EPC) with their advantages and disad	ivaniages.	6	CO4
b)	Explain power reversal in HVDC and significance of current margin.		6	CO3
c)	Explain overvoltage and overcurrent protection in HVDCT.		6	CO5

CRITERION: 2.2.2, 3.2.2.

FILE NO: P25, P31

Innovative 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.



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 Maharashtra, Affiliated to : University of Munibal.

■ SCHOOL OF ENGINEERING & TECHNOLOGY

□ SCHOOL OF PHARMACY

□ SCHOOL OF ARCHITECTURE

DEPARTMENT OF ELECTRICAL ENGINEERING

R	REV:00	QUESTION PAPER CLASS TEST 02		EX	M-04 B
CLA	SS:- BE	S	EM:- VII		
COU	RSE:- HV	DCT	DATE:- 24/1	10/18	
DUR	RATION:-	60 min. N	//ARKS:- 20		
		ny ONE: (08 Marks)		larks	CO
a) Discuss desired features of control of HVDCT. Explain control characteristic of HVDC system under normal and abnormal conditions.			rstem	8	CO3
b)	b) Explain different types of faults in HVDC system. Explain single and double commutation failure with waveforms.		n failure	8	CO5
c) Explain causes and consequences of harmonics in HVDC systems. Explain the various types of filters used.			es of	8	CO6
0.02	Attempt	ny TWO: (12 Marks)			
a)]	Explain two	methods of Equidistant Pulse Control (EPC) with their advantages and disadv	antages.	6	CO4
		wer reversal in HVDC and significance of current margin.		6	CO3
c)]	Explain ove	ervoltage and overcurrent protection in HVDCT.		6	CO5

FILE NO : P25, P31

Innovative 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.



KALSEKAR TECHNICAL CAMPUS, NEW PANYEL

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 Maharashtra, Affiliated to : University of Mumbai.

SCHOOL OF ENGINEERING & TECHNOLOGY

□ SCHOOL OF PHARMACY

□ SCHOOL OF ARCHITECTURE

DEPARTMENT OF ELECTRICAL ENGINEERING

F	REV:00	QUESTION PAPER CLASS TEST 02	EXM-04 B		
CLA	SS:-BE		SEM:-VII		
	JRSE:-PSC	OC .	DATE:-23/10	/ 2018	
DUI	RATION:-	60 min.	MARKS:- 20		
Q.0	1 Attemp	t any two: (08 Marks)		Marks	СО
a)		stability and explain its types.		04	1
b)	Write a s	short note on power pool.			3
c) Explain surge impedance loading in detail.		04	1		
Q.0	2 Attemp	t any two: (12 Marks)			
a)		e swing equation of power system.	(6.	06	3
b)	Discuss the	e other type transaction in interchange of power and energy.	No.	06	2
c)	is ignored. this power	or at 50 Hz deliver 1pu power to an infinite bus through a transmission circular fault takes place reducing the maximum power transferable to 0.5pu where was 2.0pu and after the clearance of the fault, it is 1.5pu.By the use certical clearing angle.	ereas before the fault,		2



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 Maharashtra, Affiliated to : University of Mumbai.

SCHOOL OF ENGINEERING & TECHNOLOGY

□ SCHOOL OF PHARMACY

☐ SCHOOL OF ARCHITECTURE

DEPARTMENT OF ELECTRICAL ENGINEERING

R	EV:00	QUESTION PAPER CLASS TEST 02	EXM-04 B		
CLAS	SS:-BE		SEM:-VII		
COU	IRSE:-PSOC		DATE:- /10	/ 2018	
DUR	ATION:-	60 min.	MARKS:- 20		
Q.01	1 Attempt	any two: (08 Marks)		Marks	СО
a)			04	1	
b)	Write a short note on power pool.		04	3	
c) Explain surge impedance loading in detail.			04	1	
Q.02	Attempt :	any two: (12 Marks)			
a)	Derive the s	wing equation of power system.		06	3
b) Discuss the other type transaction in interchange of power and energy.				06	2
	is ignored.A this power v	at 50 Hz deliver 1pu power to an infinite bus through a transmission circulars. Fault takes place reducing the maximum power transferable to 0.5pu when was 2.0pu and after the clearance of the fault, it is 1.5pu. By the use critical clearing angle.	reas before the fault,	06	2

CRITERION: 2.2.2, 3.2.2.

FILE NO: P25, P31

Innovative 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.



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 Mahorashtra, Affiliated to : University of Mumbai.

SCHOOL OF ENGINEERING & TECHNOLOGY

□ SCHOOL OF PHARMACY

□ SCHOOL OF ARCHITECTURE

DEPARTMENT OF ELECTRICAL ENGINEERING

REV:C	QUESTION PAPER CLASS TEST 02	EXM-04 B	
CLASS:-	SEM:-VII		
COURSE	DATE	5/10/18	4
	ON:- 60 min. MARKS:- 2	20	
Q.01 At	tempt any ONE: (08 Marks)	Marks	СО
	DESCRIBE IN BRIFE VARIOUS TEST CARRIED ON BUSHINGS	8	CO3
b)	WHAT ARE VARIOUS FACTORS TO BE CONSIDERED WHILE DESIGNING HIGH VOLTAGE LABORATORY	8	CO4
Q.02 At	tempt any ONE: (12 Marks)		
a)	NAME DIFFERENT METHODS FOR GENERATION OF HIGH CURRENT. EXPLAIN HALL GENERATOR FOR MEASUREMENT OF HIGH CURRENTS.	12	CO2
b)	EXPLAIN HOW SPHERE GAP CAN BE USED TO MEASUREPEAK VALUE OF VOLTAGES. WHAT ARE THE FACTORS INFLUENCING SUCH MEASUREMENTS.	12	CO3

FILE NO: P25, P31

CRITERION: 2.2.2, 3.2.2.

Innovative 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.



ANJUMAN-I-ISLAM'S

KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
Approved by: All India Countil for Technical Education, Council of Architecture, Pharmacy Council of India New Delhi,
Recognised by: Directorate of Technical Education, Govt. of Maharashtra, Affiliated to: University of Mumbol.

□ SCHOOL OF PHARMACY

□ SCHOOL OF ARCHITECTURE

52 SCHOOL OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ELECTRICAL ENGINEERING

REV:0	OUESTION PAPER CLASS TEST 02	EXM-04 B	
CLASS:-	SEM:-VII		
COURSE	:- HVE DATE:-	4	
DURATIO	DN:- 60 min. MARKS:-	20	
Q.01 At	tempt any ONE: (08 Marks)	Marks	СО
a)	DESCRIBE IN BRIFE VARIOUS TEST CARRIED ON BUSHINGS	8	CO3
	WHAT ARE VARIOUS FACTORS TO BE CONSIDERED WHILE DESIGNING HIGH VOLTAGE LABORATORY	8	CO4
Q.02 Atı	empt any ONE: (12 Marks)		
]	NAME DIFFERENT METHODS FOR GENERATION OF HIGH CURRENT. EXPLAIN HALL GENERATOR FOR MEASUREMENT OF HIGH CURRENTS.	12	CO2

CRITERION: 2.2.2, 3.2.2.