



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.

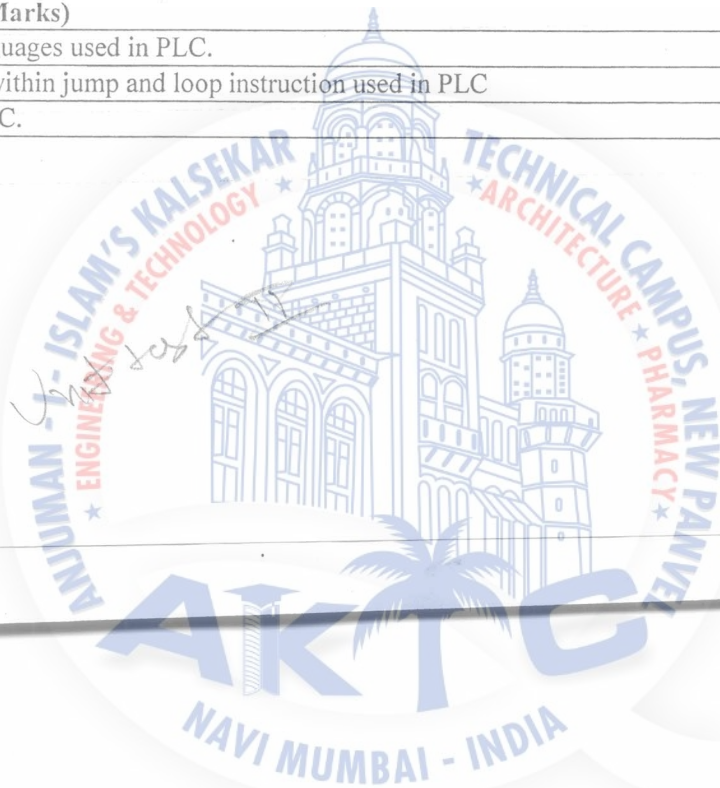
- SCHOOL OF ENGINEERING & TECHNOLOGY
 SCHOOL OF PHARMACY
 SCHOOL OF ARCHITECTURE

DEPARTMENT OF ELECTRICAL ENGINEERING
DEPARTMENT OF ELECTRICAL ENGINEERING

CLASS:- BE	SEM:- VII
SUBJECT:- CS II	DATE:- / 10 / 2017
DURATION:- 60 min.	MARKS:- 20

CLASS TEST 02

Q.01 Attempt any two: (10 Marks)		marks	CO
a)	Explain the architecture of PLC with proper diagram.	5	3
b)	Explain relationship of data file to input output module.	5	3
c)	Explain troubleshooting in PLC.	5	3
Q.02 Attempt any one: (10 Marks)		marks	CO
a)	Explain different languages used in PLC.	10	4
b)	Explain jump, jump within jump and loop instruction used in PLC	10	4
c)	Explain Timers of PLC.	10	4





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DEPARTMENT OF ELECTRICAL ENGINEERING

REV:00	DEPARTMENT OF ELECTRICAL ENGINEERING		EXM-04(a)	
CLASS:- BE		SEM:-VII		
SUBJECT:- HVDC		DATE:- 23/10/17		
DURATION:- 1hr		MARKS:- 20		
CLASS TEST 02				
Q.01 Attempt any TWO: (10 Marks)			Marks	CO
1	Explain with neat diagrams mode stabilization. What is the significance of current margin?	5	CO3	
2	Draw and explain block diagram of system control hierarchy in HVDC.	5	CO3	
3	Explain VDCOL characteristics.	5	CO3	
Q.02 Attempt any ONE: (10 Marks)				
1	Explain causes and effects of harmonics in HVDC system.	10	CO6	
2	Explain EPC firing control scheme	10	CO4	

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REV:00	DEPARTMENT OF ELECTRICAL ENGINEERING	EXM-04(a)
CLASS:- BE		SEM:- VII
SUBJECT:- PSOC		DATE:- 23/10/17
DURATION:- 1hr		MARKS:- 20
CLASS TEST 02		
Q.01 Attempt any TWO: (10 Marks)		
	Marks	CO
1	Write a short note on power pool & transactions	05 CO4
2	Define power system stability and classify it on basis of nature & disturbances	05 CO5
3	Discuss the other type of transactions in interchange of power and energy	05 CO4
Q.02 Attempt any ONE: (10 Marks)		
1	A 50Hz 4 pole generator rated 20MVA, 13.2KV has an inertia constant of $H=9$ Kw-sec/KVA .Determine the kinetic energy stored in the rotor at synchronous speed. Determine the acceleration if input less than rotational losses is 25000HP and electric power developed is 15000Kw. If the acceleration computed for the generator is constant for a period of 15 cycles ,Determine the change in torque angle in that period and rpm.Assume that generator is synchronized with larger system has no accelerating torque before 15 cycles begin	10 CO5
2	Derive the swing equation for synchronous machine that describes the rotor dynamics and state the assumptions made in transient stability studies	10 CO5

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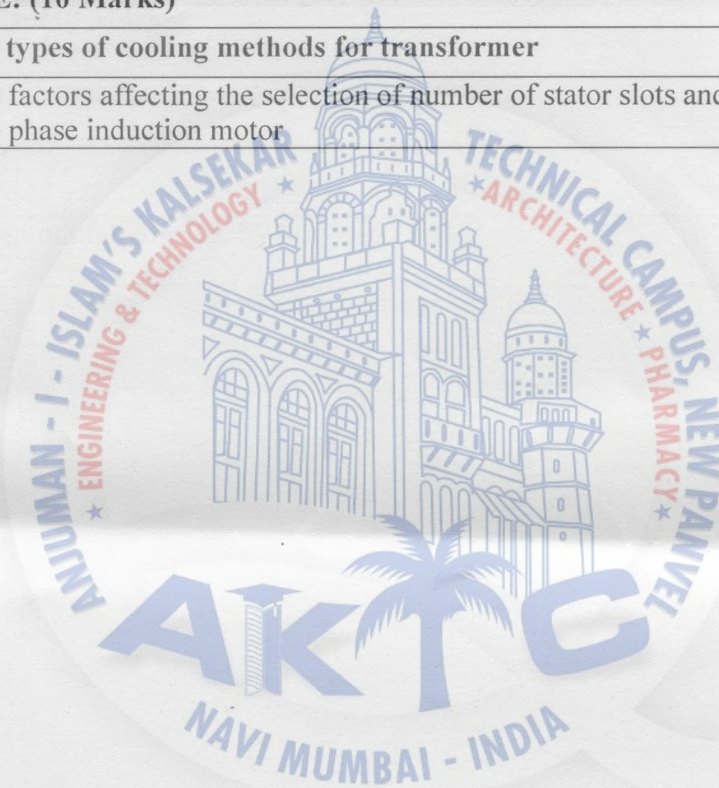
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REV:00	DEPARTMENT OF ELECTRICAL ENGINEERING	EXM-04(a)	
CLASS:- BE		SEM:- VII	
SUBJECT:- EMD		DATE:-	
DURATION:- 1		MARKS:- 20	
CLASS TEST 02			
Q.01 Attempt any ONE out of TWO: (10 Marks)		Mark	CO
1	Explain the output Equation of three phase induction motor and specify various term used.	10	CO1
2	Discuss the various leakage fluxes in induction motor with neat diagram.	10	CO1
Q.02 Attempt any ONE: (10 Marks)			
1	Describe different types of cooling methods for transformer	10	CO3
2	Discuss the various factors affecting the selection of number of stator slots and rotor slot in case of three phase induction motor	10	CO3



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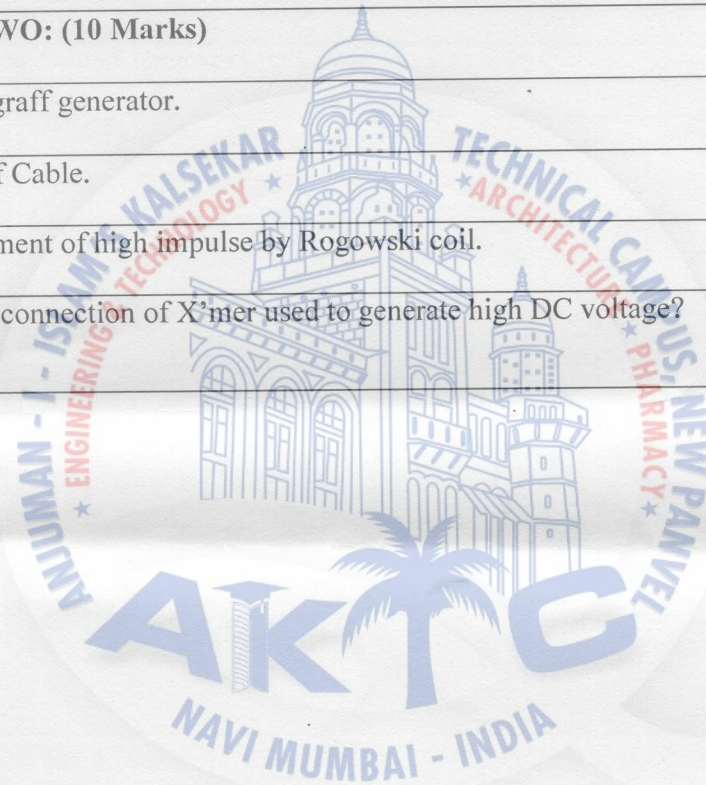
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REV:00	DEPARTMENT OF ELECTRICAL ENGINEERING	EXM-04(a)
CLASS:- BE		SEM:- VII
SUBJECT:- HVE		DATE:-25/10/2017
DURATION:- 1 Hr		MARKS:- 20
<u>CLASS TEST 02</u>		
Q.01 Attempt any TWO: (10 Marks)		Marks CO
1 Explain Van De graff generator.		10 2
2 Explain testing of Cable.		10 3
3 Explain measurement of high impulse by Rogowski coil.		10 3
4 How is cascaded connection of X'mer used to generate high DC voltage?		10 2



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