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

REV:00	DEPARTMENT OF ELECTRICAL ENGINEERING	EXM-04(a)
CLASS:- BE		SEM:- VIII
SUBJECT:- DC		DATE:-28/2/18
DURATION:- 1hr		MARKS:- 20

CLASS TEST 01

	Q.01 Complusory Question: (6 Marks)	**Marks**	**CO**
1	A drive has following equation for motor and load torque. $T = 1 + 2\omega_m$ $T_L = 3\sqrt{\omega_m}$ Obtain the equilibrium points and determine their steady state stability.	6	CO3
	Q.02 Attempt any TWO: (14 Marks)		
1	Explain closed loop speed control scheme which is widely used in electrical drives.	7	CO2
2	Explain load equalisation with derivation?	7	CO2
3	What is electrical drives. State the main factors which decides the choice of electical drives	7	CO1

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DEPARTMENT OF ELECTRICAL ENGINEERING

REV:00	DEPARTMENT OF ELECTRICAL ENGINEERING	EXM-04(a)
CLASS:- BE		SEM:- VIII
SUBJECT:- DMAES		DATE:- 29/02/2018
DURATION:- 1 Hr		MARKS:- 20

CLASS TEST 01

	Q.01 Attempt any TWO: (10 Marks each)	**Marks**	**CO**
1	Define energy monitoring and targeting and what are the key elements?	10	4
2	Write detailed note on CUSUM technique	10	4
3	What is tariff? State various components of tariff.	10	2
4	Explain design consideration in transformer sizing and specifications.	10	1

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DEPARTMENT OF ELECTRICAL ENGINEERING

DEPARTMENT OF ELECTRICAL ENGINEERING	
CLASS:- BE	SEM:-V III
SUBJECT:- PSPR	DATE:- 1/3/18
DURATION:- 1 Hr	MARKS:- 20

CLASS TEST 01

	Q.01 Attempt any TWO: (10 Marks)	**Marks**	**CO**
a	What is load growth characteristic?	5	CO4
b	What is the meaning of Outage? Explain their types?	5	CO4
c	The reliability of component is 0.5.how many such components can be connected in parallel to achieve an over all reliability of at least 0.9?	5	CO1
	Q.02 Attempt any ONE: (10 Marks)		
a	Draw Bath Tub Curve and defines all three regions in it?	10	CO2
b	Explain load forecasting and their types in detail	10	CO4

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REV:00	DEPARTMENT OF ELECTRICAL ENGINEERING	EXM-04(a)
CLASS:- BE		SEM:-VIII
SUBJECT:- FACTS		DATE:- 01/03/18
DURATION:- 1hr		MARKS:- 20

CLASS TEST 01

		Marks	CO
Q.01 Attempt any TWO: (10 Marks)			
1	Why do we need transmission interconnection?	5	CO1
2	Explain various parameters which limit loading capabilities of transmission line.	5	CO1
3	Explain load compensation? State its objective.	5	CO2
Q.02 Attempt any ONE: (10 Marks)			
1	Show that voltage sensitivity for load reactive power is $\frac{dv}{dq} = \frac{-E/SSC}{1+kr(E/SSC)}$	10	CO2
2	Explain power factor correction and phase balancing of unsymmetrical load in detail	10	CO2