



**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:- TE			SEM:- VI
SUBJECT:- EM-III			DATE:- 27/2/18
DURATION:- 1hr			MARKS:- 20
<b>CLASS TEST 01</b>			
<b>Q.01 Attempt any TWO: (10 Marks)</b>			
1	Explain the effect of change in excitation for alternator connected to infinite bus.	10	CO1
2	What is armature reaction? Explain armature reaction for unity, Zero lagging & Zero leading.	10	CO1
3	Explain Blondel's two reaction theory.	10	CO1
<b>Q.02 Attempt any ONE: (10 Marks)</b>			
1	A 10 MVA, 1kV, 50Hz 3 phase 750 rpm star connected alternator is driven at 300 rpm, armature winding is having 360 slots with 6 conductors per slot coil span is 5/6 of pole pitch calculate flux per pole required to give 11 kV line voltage on open circuit.	10	CO2
2	Two three phase alternators operate in parallel the rating of one machine is 50MW and that of other is 100MW. Both alternators are fitted with governors having drop of 4%. How will the machine share a common load of 100MW.	10	CO2

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EXM-

**DEPARTMENT OF ELECTRICAL ENGINEERING**

SEM:- VI

DATE:- 27/2/18

MARKS:- 20

REV:00	
CLASS:- TE	
SUBJECT:- POWER SYSTEM ANALYSIS	
DURATION:- 1hr	

**CLASS TEST 01**

Marks	CO
5	CO2
5	CO3
5	CO2

**Q.01 Attempt any TWO: (10 Marks)**

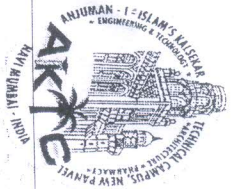
- A Discuss the short Circuit of synchronous machine under load condition.
- B Discuss the transients on transmission line and Derive the expression for current.
- C Write short note on selection of circuit breaker.

**Q.02 Attempt any TWO: (10 Marks)**

- A What is power invariance in unsymmetrical fault analysis?
- B Discuss the Z Bus formulation technique.  
 $I_a = 5.260^\circ \text{ Amp}$ ,  $I_b = 5.2-60^\circ \text{ amp}$ ,  $I_c = 0$ .
- C The line current in three phase system are  
Find the symmetrical component.

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EXM-04(a)

REV:00		
CLASS:- TE		SEM:- VI
SUBJECT:- UEE		DATE:- 29/02/2018
DURATION:- 1hr		MARKS:- 20

**CLASS TEST 01****Q.01 Attempt any TWO: (10 Marks)**

	Marks	CO
1 State and explain laws of illumination & why photometers are required	5	CO2
2 Explain the importance of 25KV AC traction system	5	CO1
3 What are the different lighting schemes explain in brief	5	CO2

**Q.02 Attempt any ONE: (10 Marks)**

1 Analyze the quadrilateral speed time curve and derive an expression for the speeds $V_1, V_2$ in terms of $\alpha, \beta$ and $B_c$	10	CO1
2 Two lamps are posted 14m apart and are fitted with 200CP lamp each at a height of 5m above the ground. Calculate i) Illumination midway between the lamps; ii) Illumination under each lamp	10	CO2

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DEPARTMENT OF ELECTRICAL ENGINEERING

REV:00	DEPARTMENT OF ELECTRICAL ENGINEERING	EXM-04(a)
CLASS:- TE		SEM:- VI <sup>02</sup>
SUBJECT:- CS-I		DATE:- 28/10/18
DURATION:- 1hr		MARKS:- 20
<b>CLASS TEST 01</b>		
<b>Q.01 Attempt any ONE: (10 Marks)</b>		<b>Marks</b>
1	Find C(s)/R(s) by using Mason Gain formula.	10
		CO2
2	Explain eleven rules involved in block reduction technique.	10
<b>Q.02 Attempt any ONE: (10 Marks)</b>		
1	Find C(s)/R(s) by using block reduction technique.	10
		CO2
2	Find the F-V analogous and F-I analogous of the following mechanical system.	10
		CO2



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**DEPARTMENT OF ELECTRICAL ENGINEERING**

REV:00	EXM-04(a)
CLASS:- TE	SEM:- VI
SUBJECT:- PM	DATE:- 01/03/18
DURATION:- 1hr	MARKS:- 20

**CLASS TEST 01**

Q.01 Attempt any TWO: (10 Marks)	Marks	CO
1 Explain funding methods of projects.	5	CO2
2 Explain break even analysis.	5	CO2
3 What is expected of project manager?	5	CO1

Q.02 Attempt any ONE: (10 Marks)	Marks	CO
1 Explain SCBS and UNIDO approach of social appraisal of projects.	10	CO2
2 How is market and demand feasibility done? Explain with example.	10	CO2



**Online & Offline Teaching - E x u b e r a n t L e a r n i n g**

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REV:00	DEPARTMENT OF ELECTRICAL ENGINEERING	EXM-04(a)
CLASS:- THIRD YEAR	SEM:- VI	
SUBJECT:- MA	DATE:- 01/3/18	
DURATION:- 1 HOUR	MARKS:- 20	
<b>CLASS TEST 01</b>		
<b>Q.01 Attempt any TWO: (10 Marks)</b>		
1	Explain data memory structure.	Marks 05
2	Explain difference between microprocessor and microcontroller.	CO 05
3	Explain status register model.	CO1 05
<b>Q.02 Attempt any TWO: (10 Marks)</b>		
1	Explain various addressing modes.	CO2 05
2	Explain rotating and comparing instruction.	CO3 05
3	Explain Increment and Decrement instruction.	CO3 05

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