

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 8. TECHNOLOGY

□ SCHOOL OF PHARMACY

□ SCHOOL OF ARCHITECTURE

DEPARTMENT OF ELECTRICAL ENGINEERING

	REV:00	DEPARTMENT OF ELECTRICAL ENGINEERING	EXM-C	4(a)
CL	ASS:- S.E.	SEI	M:- III	
SU	BJECT:- AN	1 III DA	TE:- 2 3 /10/17	
DU	RATION:-	1 Hr MA	ARKS:- 20	
		UNIT TEST 02		
Q.0	1 Attempt	any TWO: (10 Marks)	Marks	CO
a)		te transform of te ^{3t} sin 4t	5	1
b)	Find invers	e Laplace transform of $\frac{s^2}{(s^2+a^2)(s^2+b^2)}$ by using convolution theorem	5	1
c)	Solve using	Laplace transform $3\frac{dy}{dt} + 2y = e^{3t}$, y=1 at t=0	5	1
Q.0	2 Attempt a	any TWO: (10 Marks)		
a)	Find the Fo	purier expansion of $f(x) = x^2$, $-\pi \le x \le \pi$	5	3
b)	Find the Fo	urier series for $f(x) = 1 - x^2$ in $(-1,1)$	5	3
c)	Find half ra	nge cosine series for $f(x) = x$, $0 < x < 2$	5	3

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.



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DEPARTMENT OF ELECTRICAL ENGINEERING

	REV:00	DEPARTMENT OF ELECTRICAL ENGINEERING	EXM-	04(a)	
CL	ASS:- SE	SEM:- I	II		
SU	BJECT:- CN	CPG DATE:-			
DURATION:- 1 Hr		Hr MARKS	MARKS:- 20		
		CLASS TEST 02			
Q.(01 Attempt	any TWO: (10 Marks)	Mar ks	СО	
a	Differentiat	e between nuclear fission and fusion	5	CO2	
b	Write a sho	rt note on hydro graph and flow duration curve	5	CO3	
С	Explain adv	antages and disadvantages of Nuclear power plant	5	CO3	
Q.(2 Attempt	any ONE: (10 Marks)			
a	Explain and	classified the types of hydro power plant	10	CO2	
b	Write a short	t note on liquid metal fast breeder reactor.	10	CO3	

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DEPARTMENT OF ELECTRICAL ENGINEERING

REV:00	DEPARTMENT OF ELECTRICAL ENGINEERIN	IG EXM-	-04(a)
CLASS:- SEC	COND YEAR	SEM:- III	
SUBJECT:- E		DATE:-	
DURATION:-			
	CLASS TEST 02		
O.01 Attempt	any ONE: (10 Marks)	Mark	s CO
1		10	2
Explain con	nstruction and working of RTD		
2 How pote	ntiometer is used to calibrate voltmeter and ammeter	10	3
	for compensation in thermocouple and explain how cold junction and provided.	lead 10	2
	any ONE: (10 Marks)	10	
Write a no	te on Digital frequency meter.	10	1
Write a no	te on Digital Tachometer.	10	1
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DEPARTMENT OF ELECTRICAL ENGINEERING

REV:00	DEPARTME	NT OF ELECTRICAL ENGINEERING		EXM-0	4(a)
CLASS:- SE		S	SEM:- III		
SUBJECT:- EM			DATE:- 25	5/10/17	
DURATION:- 11	hr		AARKS:- 2		
	*	CLASS TEST 02			
Q.01 Attempt an	ny TWO: (10 Marks)			Marks	CO
1 Explain dyn	amic/rheostatic braking for-			5	CO4
i. Sep	arately excited motor				001
ii. Shu	nt motor				
iii. Seri	es motor				
2 Explain sing	gle stack variable reluctance	stepper motor		5	C06
3 A 500v shur	nt motor takes 4 amp on no l	oad. The armature resistance including that of br	ushes is	5	CO4
0.2 onin and	the field current is 1 amp. E	Estimate the output and efficiency when the input	t current		
	y ONE: (10 Marks)				
2 The hopkins	struction and working of 4 po	oint starter. State advantages over 3 point starter.		10-	CO4
Z The nopkins	The hopkinson's test on two identical shunt machines gave the following results-			10	CO5
1/p voltage=	=500V	Field current of generator= 4 Amp			
i/p current					
o/p current	of generator=120 Amp	Armature Resistance of each m/c = 0.06 oh	ım		
Find efficien	Find efficiency of both machines.				

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CLASS:- SE		SEM:- III	
SUBJECT:- ED	C	DATE:-	/10/2017
DURATION:- 1	Hr	MARKS:-	20

CLASS TEST 02

0.0	1 Attempt any TWO: (10 Marks)	Marks	CO
a	Differentiate between E-mosfet and D-mosfet	05	CO3
b	Draw and explain the IV characteristics of JFET	05	CO4
С	Plot the Transfer characteristics with Q-point. 20V 910K 2.2K IDSS=10mA Vp= -3.5 110K 0.51K	05	CO4
Q.(22 Attempt any ONE: (10 Marks)		
a	Draw and explain the process of generation of oscillations from an LC Tank Circuit	10	CO4
b	Derive the frequency of oscillations for colpitts oscillator.	10	CO4