IES COLLEGE OF TECHNOLOGY, BHOPAL ASSIGNMENT #1

SUBJECT NAME: Engg. Maths - II SUBJECT CODE: BE - 301

DATE OF AWARD: 16 /7/2014 DATE OF SUBMISSION: 24 /07/2014

1	Find the Laplace transform of te ^{-2t} sin2t	[RGTU 2008]
2	Solve the equation by the transform method: $d^2y/dt^2 - 3dy/dt + 2y = 1$ and $y'(0) = -1$	$4t + e^{3t}$ when y(0) = [RGTU 2010]
3	Find the Inverse Laplace Transform of $1/s^3 - a^3$	[RGTU 2007]
4	Find the Laplace Transform of t ² sinat.	[RGTU 2008]
5	Solve the equation by the transform method: $d^2y/dt^2 - 3dy/dt + 2y = 1$ and $y'(0) = -1$	$4t + e^{3t}$ when $y(0) =$ [RGTU

IES COLLEGE OF TECHNOLOGY, BHOPAL EC (IIIth SEM) Assignment Paper-1 Computer System Organization (EC-302)

Date	of Assignment: 16/07/2014 Submission Date: 24/07/2014
Q.1	Explain Different types of Register related to the CPU; Also explain functionality
	of special purpose register.
Q.2	Explain different types of addressing modes of registers.
Q.3	Differentiate between RISC & CISC.
Q.4	Explain basic model of computer with subsystem work.
Q.5	What are the no of stages & operations involved in instruction execution.

IES COLLEGE OF TECHNOLOGY, BHOPAL Assignment 1

SUB: EI (EC-303)

	Date of Assign: 16/07/14 Date of Submission: 24/07/14	
1	Describe the different criteria for selection of transducer.	2011
2	What is the difference between Active & Passive transducers? Give construction working & application of strain gauge.	2010
3	Draw and Explain the circuit suitable for low capacitance measurement.	2007,2008 ,2011
4	A Maxwell's capacitance bridge is used to measure an unknown inductance $Rz=400\Omega$, $R3=600\Omega$, $R4=1000\Omega$, $C4=0.5\mu$ F.calculate R & L and also Q factor of coil if frequency 1000Hz.	2007
5	An A.C bridge is in balance with the following constant arm AB,R=450 Ω arm BC, R=300 Ω in series with C=0.265 μ F and arm DC, unknown arm DA,R=200 Ω in series with L=15.9mH.freq=1kHz.Find constant of arms CD.	2010,2007

IES COLLEGE OF TECHNOLOGY , BHOPAL B.E. (3rd SEM) Assignment Paper-1

Electronic Devices (EC-304)

	Date of Assign: 16/07/14	Date of Submission: 24/07/14	Ļ
1	Describe the different criteria for selection of t	cansducer.	2011
2	What is the difference between Active & Passi construction working & application of strain g	ve transducers? Give auge.	2010
3	Draw and Explain the circuit suitable for low c	apacitance measurement.	2007,2008 ,2011
4	A Maxwell's capacitance bridge is used to mean $Rz=400\Omega$, $R3=600\Omega$, $R4=1000\Omega$, $C4=0.5\mu$ F.cal of coil if frequency 1000Hz.	sure an unknown inductance culate R & L and also Q factor	2007
5	An A.C bridge is in balance with the following BC, R=300 Ω in series with C=0.265 μ F and arr DA,R=200 Ω in series with L=15.9mH.freq=1k	constant arm AB,R=450Ω arm n DC, unknown arm Hz.Find constant of arms CD.	2010,2007

IES COLLEGE OF TECHNOLOGY , BHOPAL ASSIGNMENT-1

Date of Assign: 16/07/14

Date of Submission: 24/07/14

Department	ELECTRONICS &	Session	JULY 2014- DEC 2014
	COMMUNICATION		
Name of Teacher	JEETENDRA SINGH	Semester	III
	CHAUHAN		
Subject	NETWORK ANALYSIS	Sub. Code	E.C305

Ques-1 Explain followings: -

1] Circuit & Node.

2] Independent & Dependent Source.

3] Unilateral& Bilateral network.

Ques-2 Explain the following

- (1) KVL and KCL
- (2) Star delta transformation
- (3) current and division principle

Ques-3 Find the current across 2 ohm resistor.

Ques-4 Explain Dual network with example and Derive the expression for

parallel opposing

 $L_{eff} = (L_1L_2 - M^2)/(L_1 + L_2 + 2M)$

Ques-5 Find the voltage V1, V2, V3.