

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-III (Old) EXAMINATION – WINTER 2019

Subject Code: 130901

Date: 28/11/2019

Subject Name: Circuits And Networks

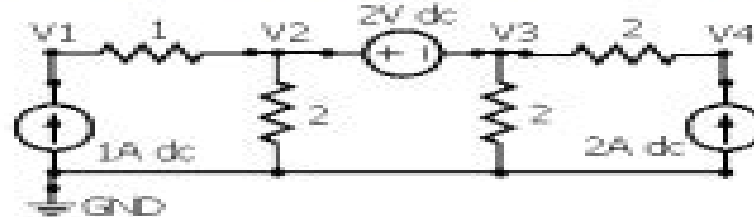
Time: 02:30 PM TO 05:00 PM

Total Marks: 70

Instructions:

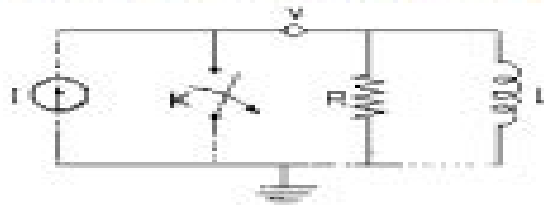
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) State and explain Thevenin's and Norton's theorem with suitable examples. 07
 (b) What are Y parameters and Z parameters? Derive the expression for Z parameters in terms of Y parameters and vice versa. 07
- Q.2** (a) Define following terms: (i) Linear and Nonlinear networks (ii) Lumped and Distributed Networks (iii) Passive and Active Networks (iv) Dependent Source 07
 (b) State and explain initial value and final value theorem. 07
- OR**
- (b) Obtain the laplace transform for $f_1(t) = t$ and $f_2(t) = te^{-t}$ 07
- Q.3** (a) State and explain principle of duality. 07
 (b) Solve for the nodal voltages V_1, V_2, V_3 and V_4 as shown in the network in figure . using nodal analysis. 07



OR

- Q.3** (a) State the procedure to obtain solution of a network using laplace transform technique. State its advantages over classical method. 07
 (b) In the network shown in fig. the switch K is opened at $t=0$. find the value of V , dV/dt , d^2V/dt^2 at $t=0^+$ if $I=10$ A, $R=10 \Omega$ and $L=1$ H 07



- Q.4** (a) State and explain maximum power transfer theorem. derive the condition for maximum power transfer to the load for d.c. circuits. 07
 (b) In the network shown in fig. the switch K is moved from 1 to 2 position at $t=0$, steady state having previously been attained. Determine the current $i(t)$ 07

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Gkp



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BASIC ELECTRONICS - GTU 2018 S Salivahanan,2019 **Basic Electronics: For BPUT** De,2011 Basic Electronics For BPUT has been designed as a comprehensive textbook for first year students of Biju Patnaik University of Technology Orissa It lays a strong foundation in the important concepts of electronics by breaking down complex topics into simple and manageable units The circuit diagrams tables and solved examples used to illustrate theoretical concepts make this book an ideal self study guide for students This book is mapped to the syllabus prescribed by BPUT and the addition of three solved university question papers will benefit students greatly Basics of Electronics Engineering for Diploma Engineer Gkp,2020-01-21 The increasing requirement for Junior Engineers Technicians in PSUs has created a large job opportunities for the diploma holders all over India Every PSU conducts its own qualifying exam based on the vacancies available for various positions such as Junior Engineer and Technician This series has been thoroughly updated to equip the diploma engineers appearing for the exams of BHEL BEL GAIL IOCL HPCL ONGC DMRC DRDO Railway Staff Selection Commission and other diploma engineering competitive examinations It aids in fast revision through key notes such as terms definitions and formulae The series also provides conceptual clarity to ease in attempting questions A vast collection of questions has been categorized under two levels questions for practice and previous years questions of various PSU examinations to give you a feel of the actual exam Features Theory and key concepts in a systematical manner Ample number of MCQs for practice in each chapter Previous years questions to familiarize you with the pattern and level of the examination **Basic Electronics Engineering (For Diploma/ Polytechnic, Odisha)** Anand M.L.,2015-07 Basic Electronics Engineering For Diploma Polytechnic Odisha *Basic Electronics* BL Theraja,2006-12 Aims of the Book The foremost and primary aim of the book is to meet the requirements of students pursuing following courses of study 1 Diploma in Electronics and Communication Engineering ECE 3 year course offered by various Indian and foreign polytechnics and technical institutes like city and guilds of London Institute CGLI 2 B E Elect Comm 4 year course offered by various Engineering Colleges efforts have beenmade to cover the papers Electronics I II and Pulse and Digital Circuits 3 B Sc Elect 3 Year vocationalised course recently introduced by Approach *Basic Electronics Engineering* ,2015 **Basic Electronics (Rgtu)** Sanjay Sharma,2009 *Basic Electronics Engineering & Devices* R. K. Singh,Ashish Dixit,2021 Basic Electronics D. C. Tayal,2010 Basic Electronics Engineering N. K. Datta,2019 Basic Electronics ,2007 **Standard Electronic Questions and Answers** Stephen Michael Elonka,Julian L. Bernstein,1964 *Basic Electronics Part 5* ,1976 *Standard electronics questions and answers* Stephen Michael Elonka,Julian Lawrence Bernstein,1964 Basic Electronics Malcolm Plant,1990-01 Also available in five revised volumes this work provides a comprehensive and practical course in electronics from first principles to setting up a variety of systems and is suitable for GCSE students over a wide ability range and for general enthusiasts All experiments cater for both PCB and breadboard users The new material for this edition includes 33

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