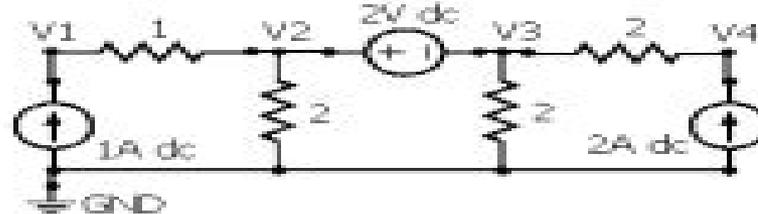


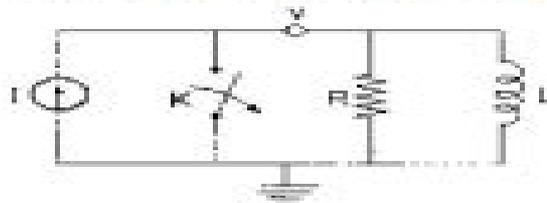
GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-III (Old) EXAMINATION – WINTER 2019****Subject Code: 130901****Date: 28/11/2019****Subject Name: Circuits And Networks****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

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 $f_2(t) = te^{-at}$ **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, $R=10$ Ω 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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S Salivahanan



Basic Electronics For Diploma Exam Paper Gtu:

BASIC ELECTRONICS - GTU 2018 S Salivahanan,2019 **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: 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 **Basic Electronics** Rakesh Kumar Garg,Ashish Dixit,Pavan Yadav,2009 *Basic Electronics (Rgtu)* Sanjay Sharma,2009 *Basic Electronics Engineering* ,2015 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 Project Modules

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11. Complete the table about the two categories of ... READING Chapter 7.1 Life Is Cellular | PDF READING Chapter 7. 1 Life is Cellular worksheet. The Discovery of the Cell Seeing is believing, an old saying goes. It would be hard to find a better ...

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