

[5925]-232

S.E. (Electrical Engineering)

NETWORK ANALYSIS

(2019 Pattern) (Semester - IV) (203147)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Use of calculator is allowed.
- 5) Assume suitable data if necessary.

Q1) a) What is time constant? State time constant in case of Series R-L circuit and series R-C circuit. [6]

b) In the network shown in Fig. 1, switch is closed at $t = 0$ with capacitor is uncharged. Find the value of $i(0^+)$, $\frac{di(0^+)}{dt}$, $\frac{d^2i(0^+)}{dt^2}$. [6]

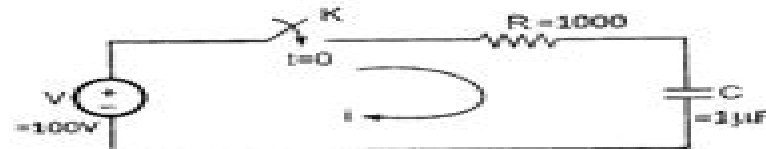


Fig. 1

- c) In the circuits in Fig. 2. The switch is closed at $t = 0$. [6]
- i) Obtain expression for current in the circuit for $t > 0$. Using the classical method.

P.T.O.

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RJ Alexander



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OPERATIONS & SUPPLY CHAIN MANAGEMENT Dr. Preeti Mahesh Kulkarni, Dr. Prajakta Nilesh Warale, Dr. Atul N Thombre, 2025-04-23 MBA SECOND SEMESTER As Per Revised MBA Curriculum 2024 Aligned with NEP Savitribai Phule Pune University Pune *Proceeding of International Conference on Computational Science and Applications* Subhash Bhalla, Peter Kwan, Mangesh Bedekar, Rashmi Phalnikar, Sumedha Sirsakar, 2020-01-04 The book consists of high quality papers presented at the International Conference on Computational Science and Applications ICCSA 2019 held at Maharashtra Institute of Technology World Peace University Pune India from 7 to 9 August 2019 It covers the latest innovations and developments in information and communication technology discussing topics such as soft computing and intelligent systems web of sensor networks drone operating systems web of sensor networks wearable smart sensors automated guided vehicles and many more **20 Year-wise SNAP Previous Year Solved Papers (2005 - 2024) with 6 Mock Tests 17th Edition | PYQs Question Bank | Quantitative Aptitude, Verbal Ability, Reading Comprehension & Reasoning** Disha Experts, The updated 17th Edition of the book 20 Year wise SNAP Previous Year Solved Papers 2005 2024 with 5 Mock Tests includes The book provides 20 Year Wise Original papers with authentic solutions of SNAP from 2005 2024 The book also contains 5 Mock tests designed exactly as per the latest pattern of SNAP Each mock test contains questions on decision making English language Analytical logical Reasoning Quantitative Ability Data Interpretation Data Sufficiency The detailed solution to each test is provided at the end of the papers *Proceedings of the Future Technologies Conference (FTC) 2021, Volume 2* Kohei Arai, 2021-11-03 This book covers a wide range of important topics including but not limited to Technology Trends Computing Artificial Intelligence Machine Vision Communication Security e Learning and Ambient Intelligence and their applications to the real world The sixth Future Technologies Conference 2021 was organized virtually and received a total of 531 submissions from academic pioneering researchers scientists industrial engineers and students from all over the world After a double blind peer review process 191 submissions have been selected to be included in these proceedings One of the meaningful and valuable dimensions of this conference is the way it brings together a large group of technology geniuses in one venue to not only present breakthrough research in future technologies but also to promote discussions and debate of relevant issues challenges opportunities and research findings We hope that readers find the book interesting exciting and inspiring it provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research Universities Handbook, 2010 19 Year-wise SNAP Previous Year Solved Papers (2005 - 2023) with 5 Mock Tests 16th Edition | PYQs Question Bank | Quantitative Aptitude, Verbal Ability, Reading Comprehension & Reasoning Disha Experts, 2024-04-25 The updated 16th Edition of the book 19 Year wise SNAP Previous Year Solved Papers 2005 2023 with 5 Mock Tests includes The book provides 19 Year Wise Original papers with authentic solutions of SNAP from 2005 2023 The book also contains 5 Mock tests designed exactly as per the latest

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A Textbook of Pharmacology-III (BP602T) Mr. Reehan Khan Mohammad Khan, Mr. Mohammed Saad, Dr. Ziyaurrehman AR, Mr. Rakesh Madhukar Bachhav, Dr. Vinod A. Bairagi,2024-09-03 It is with great pleasure that I introduce A Textbook of Pharmacology III The book was created rigorously in accordance with the Pharmacy Council of India s authorized syllabus for students pursuing a bachelor s degree in pharmacy An attempt has been made to examine the topic in a straightforward manner that students can readily comprehend The book contains a number of flowcharts and illustrations to help students understand concepts more easily The author really hopes that both academicians and students will find this work to be helpful Medicine and pharmacology form the cornerstone of illness management This book includes all clinical and pharmacological treatment plans medication combinations and pathophysiological information with therapy aims for a variety of disorders This book which focuses mostly on the pharmacology of star drugs in their respective categories presents drug interactions pharmacokinetics indications and contraindications in an easy to understand format I hope teachers and students will respond well to this book We accept suggestions from all areas of the profession Any inconsistencies or mistakes that may have persisted are our fault and we would appreciate it if readers pointed them out

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