



Program: Diploma in Electrical/Electrical & Electronics Engineering

Full Marks: 80

Year/Part: II/II (2022)

Pass Marks: 32

Subject: Electric Circuit Analysis

Time: 3 hrs.

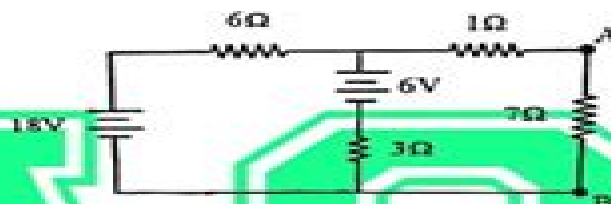
Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt any FIVE questions.

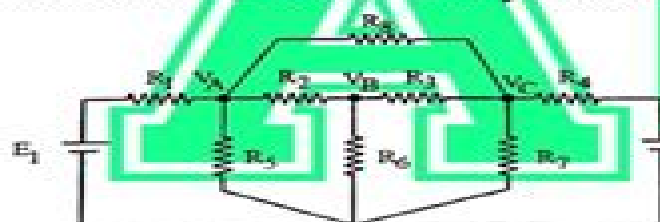


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1. a. Define maximum power transfer theorem with appropriate example. [8]
- b. Use Thevenin's theorem to calculate voltage across terminals A and B. [8]



2. a. Perform the mesh analysis on the given circuit. [8]



- b. Three voltage represented by $e_1 = 10\sin\omega t$, $e_2 = 15\sin\left(\omega t + \frac{\pi}{4}\right)$, $e_3 = 20\sin\left(\omega t - \frac{\pi}{6}\right)$ act together in a circuit, find expression for the resulting voltage. [8]
3. a. Define average value and derive its mathematical expression. [8]

Cont.

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Electric Circuit Theory J. M. Ivison, 1977 **Electronic Components and Processes** Preeti Maheshwari, 2006 This Concise And Comprehensive Text Will Present The Students With A Single Book Containing All The Essential Theories On The Subject Using An Interdisciplinary Approach The Book Encompasses The Three Main Aspects Of The Subject Namely Electronic Material Component And Processes Throughout The Book Stress Has Been Given On Fundamental Concepts Through Illustrative Examples It Is Kept In Consideration To Use Simple And Lucid Language Keeping In View The Different Language Background Of Students The Book Is Primarily Aimed At Serving The Acute Demand Of The Students Of Ece Ee Eic Electrical Engg And Diploma Searching Useful Matter On Electronic Materials Components And Processes The Book Covers Each And Every Topic As Per The Syllabus Of University Of Rajasthan Of Third Semester B E B Tech Courses But With Its Wide Coverage And Easily Comprehensible Style The Book Would Also Be Immensely Useful For Engineering Undergraduates Of Other Indian Technical Universities Physics, 1996-2000 G[sta Ekspong, Nobelstiftelsen, 2002 This volume is a collection of the Nobel Lectures delivered by the prizewinners together with their biographies portraits and the presentation speeches for the period 1996 2000 Each Nobel Lecture is based on the work that won the prize This volume of inspiring lectures by outstanding physicists should be on the bookshelf of every keen student teacher and professor of physics as well as of those in related fields Below is a list of the prizewinners during the period 1996 2000 with a description of the works which won them their prizes 1996 D M LEE D D OSHEROFF 1997 S CHU C COHEN TANNOUDJI 1998 R B LAUGHLIN H L ST RMER 1999 G t HOOFT 2000 Z I ALFEROV J S KILBY for his part in the invention of the integrated circuit
 Publisher's Monthly ,1997 **The Electrical Review** ,1914 **Electrical Engineer** ,1962 **The Electrical World** ,1893 Electrical Engineering ,1912 Journal of the Institution of Electronics and Telecommunication Engineers Institution of Electronics and Telecommunication Engineers (India), 1983 *Electrical World* ,1893 **The Electrical Journal** ,1912 **Industrial Engineering** George Worthington, 1893 New York Review of the Telegraph and Telephone and Electrical Journal ,1884 **Scientific American** ,1874 Rough Notes Irving Williams, 1920 A journal devoted to insurance and the industries *Resources in Education* ,1977 **Electricity** ,1918 **The Electrician** ,1893
 Bulletin of the Institution of Engineers (India). Institution of Engineers (India), 1988 **Electrical Times** ,1964

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