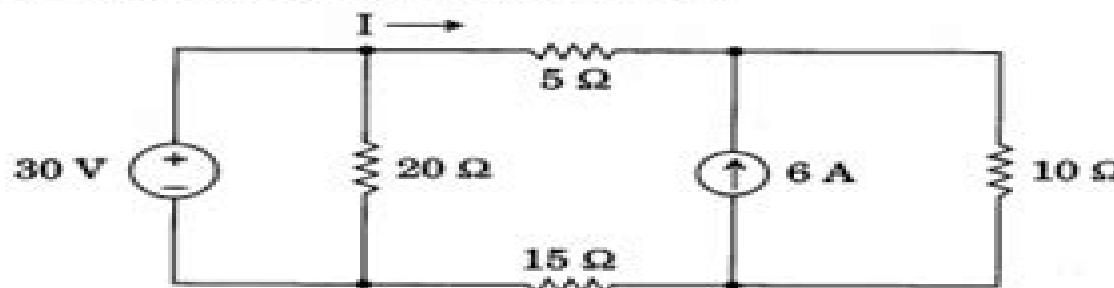


Q1. (a) (i) Obtain the partial differential equation governing the equations $f(u, v) = 0$, $u = x + yz$, $v = x + y + z$ 8
(ii) Construct a partial differential equation of all surfaces of revolution having z-axis as the axis of rotation. 4

(b) Discuss the phenomena of Hysteresis in ferromagnetic materials. On the B – H curve show the retentivity, coercivity and saturation points. What is coercive force and the energy dissipated per unit volume of the ferromagnetic substance during the hysteresis cycle ? 12

(c) Explain and derive continuity of current equation using the principle of conservation of charge. 12

(d) Using the principle of superposition, determine the current I in the 5Ω resistor in the circuit shown in the figure. 12



(e) State Ampere's circuital law. A hollow conducting cylinder has inner radius a and outer radius b and carries current I along the positive z-direction. Find \mathbf{H} everywhere. 12

Q2. (a) (i) If a square matrix A of order n with entries in field F has n distinct eigenvalues, then prove that matrix A is similar to a diagonal matrix. 10
(ii) Find the matrix P which diagonalizes the matrix associated with the quadratic form $3x^2 + 5y^2 + 3z^2 - 2yz + 2zx - 2xy$. 10

(b) (i) On the basis of specific resistance ρ , discuss the difference between conductors, semi-conductors and insulators. 8
(ii) Prove that insulation resistance of a cable is inversely proportional to its length. Define insulation resistance. 12

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Svenja Adolphs,Dawn Knight

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HEAT AND MASS TRANSFER Shivkumar Raghuvanshi, This book is designed to serve as a guide for the aspirants for Mechanical Engineering who are preparing for different exams like State Engineering service Exams GATE ESE IES RSEB AE JE SSC JE RRB JE State AE JE UPPSC AE and PSUs like NTPC NHPC BHEL Coal India etc The unique feature in this book is that the ESE IES Mechanical Engineering Detailed coloured solutions of Previous years papers with extra information which covers every topic and subtopics within topic that are important on exams points of views Each question is explained very clearly with the help of 3D diagrams The previous years from 2010 to 2021 questions decoded in a Question Answer format in this book so that the aspirant can integrate these questions along in their regular preparation If you completely read and understand this book you may succeed in the Mechanical engineering exam This book will be a single tool for aspirants to perform well in the concerned examinations ESE GATE ISRO SSC JE Mechanical Engineering Previous Years Papers Solutions Multi Coloured eBooks You will need not be to buy any standard books and postal study material from any Coaching institute EVERYTHING IS FREE 15 DAYS FOR YOU Download app from google play store <https://bit.ly/3vHWPne> Go to our website <https://sauspicious.in>

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Research Anthology on Bilingual and Multilingual Education Management Association, Information Resources, 2021-10-29 Given the boost in global immigration and migration as well as the emphasis on creating inclusive classrooms research is turning to the challenges that teachers face with the increasing need for bilingual and multilingual education The benefits of bilingual education are widespread allowing students to develop important cognitive skills such as critical thinking and problem solving as well as opening further career opportunities later in life However very few resources are available for the successful practice and implementation of this education into the

curriculum with an even greater lack of appropriate cultural representation in the classroom. Thus it is essential for educators to remain knowledgeable on the emerging strategies and procedures available for making bilingual and multilingual education successful. The Research Anthology on Bilingual and Multilingual Education is a comprehensive reference source on bilingual and multilingual education that offers the latest insights on education strategy and considerations on the language learners themselves. This research anthology features a diverse collection of authors offering valuable global perspectives on multilingual education. Covering topics such as gamification, learning processes and teaching models, this anthology serves as an essential resource for professors, teachers, pre-service teachers, faculty of K-12 and higher education, government officials, policymakers, researchers and academicians with an interest in key strategy and understanding of bilingual and multilingual education.

The Routledge Handbook of English Language and Digital

Humanities Svenja Adolphs, Dawn Knight, 2020-04-16. The Routledge Handbook of English Language and Digital Humanities serves as a reference point for key developments related to the ways in which the digital turn has shaped the study of the English language and of how the resulting methodological approaches have permeated other disciplines. It draws on modern linguistics and discourse analysis for its analytical methods and applies these approaches to the exploration and theorisation of issues within the humanities. Divided into three sections, this handbook covers sources and corpora, analytical approaches to English language at the interface with other areas of research in the digital humanities. In covering these areas, more traditional approaches and methodologies in the humanities are recast and research challenges are re-framed through the lens of the digital. The essays in this volume highlight the opportunities for new questions to be asked and long-standing questions to be reconsidered when drawing on the digital in humanities research. This is a ground-breaking collection of essays offering incisive and essential reading for anyone with an interest in the English language and digital humanities.

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Muralisrinivasan Subramanian, 2018-10-03. The Basics of Polymers is written exclusively about chemical methods of polymer testing aimed at producing a high degree of manufacturing and quality control of polymer products. Polymer testing has assumed importance for industries dependent on polymers and additives as key product components. The text is intended to serve as a handbook for students, engineers and people involved in polymer synthesis and laboratory work. This book provides information on identification and characterization of polymers by chemical methods. Specifically aimed at graduate level students, its style of presentation is practical, making it easier to grasp. The author hopes this book will encourage and foster continuing method development and application of chemical methods for characterizing polymers. Education and training of people being of paramount importance, it is also valuable to all educators, processors as a tremendous resource that answers commonly asked questions.

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Rai,2020-03-30 This book follows a logical concept building approach rather than only formula based as offered by other
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