

- Q1.** (a) (i) Obtain the partial differential equation governing the equations
 $f(u, v) = 0, \quad u = x + yz, \quad v = x + y + z$ 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 5 Ω 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 \vec{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

$$3x^2 + 5y^2 + 3z^2 - 2yz + 2zx - 2xy. \quad 10$$

- (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 Adolphi, Dawn Knight



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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 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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