

Course Title: Discrete Structure
Discipline/Program: BSCS(3A), BSS
Total Marks: 30
Time allowed: 2.5 Hours

Question No 1: (3+3)

- a) Write an explicit formula for the following sequence and find the 19th term in the sequence using explicit formula.

$$1 - \frac{1}{2}, \frac{1}{2} - \frac{1}{3}, \frac{1}{3} - \frac{1}{4}, \frac{1}{4} - \frac{1}{5}, \dots$$



- b) Find the sum of series of first three hundred natural numbers through formula

Question No 2: (4+4)

- a) Define the type of each relation.
- $R1 = \{(1, 1), (1, 2), (1, 3), (2, 3)\}$
 - $R2 = \{(1, 2), (1, 4), (2, 3), (3, 4)\}$
 - $R3 = \{(2, 1), (2, 4), (2, 3), (3,4)\}$
 - $R4 = \{(2, 1), (2, 4), (2, 3), (3,4)\}$
- b) After that only draw the directed graph for reflexive relation.

Question No 3: (3+5)

- a) Find all functions from $X = \{ a, b \}$ to $Y = \{ u, v \}$.
- b) Using truth table identify critical rows and verify either argument is valid or invalid :
- Socrates has a new toga or he didn't waste 30 drachmas.
 - Plato has a pound of feta cheese or a quart of olive oil.
 - Socrates wasted 30 drachmas and Plato doesn't have a pound of feta cheese.
 - Therefore, Socrates has a new toga and Plato has a quart of olive oil.

Question No 4: (4+4)

- a) Find the values $(A \cap B)^c = A^c \cup B^c$ where Given sets are:

- $A = \{ 1,2 \}$
- $B = \{ 2,3 \}$
- $U = \{ 1,2,3,4 \}$

And Prove the above one using Venn Diagrams and with the help of Membership Table.

- b) Prove the given by using Membership Table:

- (i) $A - (A - B) = A \cap B$
- (ii) $(A \cap B)^c = A^c \cup B^c$
- (iii) $A - B = A \cap B^c$

Xtrem Past Papers

J Elliott



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Physics for Advanced Level Jim Breithaupt, 2000 This course study guide is to be used with New Understanding Physics for Advanced Level or other physics core textbooks It aims to help further develop physics skills such as laboratory techniques mathematical methods and data handling The course study guide also provides outline solutions to a selection of questions and gives advice on answering all types of examination questions and support for Key Skills CIMA Exam Practice Kit Management Accounting Performance Evaluation Paper P1 Ian Barnett, Simon Dawkins, 2006 No further information has been provided for this title Papers Peace Research Society (International), 1970 Vol 1 issued as Papers presented at a Peace Research Conference Working Paper Series, 2002 Advances in Behavioral Finance, Volume II Richard H. Thaler, 2005-07-25 A definitive and wide ranging overview of developments in behavioural finance over the past ten years This second volume presents twenty recent papers by leading specialists that illustrate the abiding power of behavioural finance **Geomorphological Fluid Mechanics** N.J. Balmforth, A. Provenzale, 2008-01-11 Geomorphology deals with some of the most striking patterns of nature From mountain ranges and mid ocean ridges to river networks and sand dunes there is a whole family of forms structures and shapes that demand rationalization as well as mathematical description In the various chapters of this volume many of these patterns are explored and discussed and attempts are made to both unravel the reasons for their very existence and to describe their dynamics in quantitative terms Particular focus is placed on lava and mud flows ice and snow dynamics river and coastal morphodynamics and landscape formation Combining a pedagogical approach with up to date reviews of forefront research this volume will serve both postgraduate students and lecturers in search of advanced textbook material and experienced researchers wishing to get acquainted with the various physical and mathematical approaches in a range of closely related research fields The Bookman, 1901 **The New World**, 1919 **Tears** Mark C. Taylor, 1990-01-01 In Tears the author explores theoretical issues raised by the intersection of philosophy literature art architecture and theology The critical accounts of thinkers like Derrida Blanchot Jab s Kierkegaard Hegel Heidegger Ricoeur Gadamer Austin Ayre Rorty Tillich Barth and Altizer developed in this book effectively reshape and refocus the terms of current debate Journal of the Transactions of the Victoria Institute, Or Philosophical Society of Great Britain Victoria Institute (Great Britain), 1885 Each volume includes list of members and objects of the institute except v 31 which has no list of members Beginning with v 12 a list of the papers contained in preceding volumes is issued regularly with each volume **Environmental Geomechanics** Bernhard A. Schrefler, Pierre Delage, 2013-03-28 This book covers a range of topics that are of increasing importance in engineering practice natural hazards pollution and environmental protection through good practice The first half of the book deals with natural risk factors of both natural and human origin that should be considered subsidence accidental infiltration soil instability rockslides and mudslides debris flow and degradation of buildings and monuments due to pollution and climactic effects for example These problems are

highlighted and it is shown that a combination of sophisticated numerical techniques and extensive experimental investigations are necessary in order to effectively tackle these problems The second half of the book is devoted to the use of polluted sites and associated problems a topic of growing significance given the increasing reclamation of land from abandoned industrial sites for urban development over the last 20 years Different types of oil pollution and decontamination methods are described followed by a discussion of waste management and detailed coverage of confinement liners used in surface waste disposal *Journal of the Transactions of the Victoria Institute, Or Philosophical Society of Great Britain* ,1885 *Journal Manchester Geographical Society*,1912 The Price Current-grain Reporter Year Book ... ,1921 **The Journal of the Manchester Geographical Society** Manchester Geographical Society,1910 History of Baltimore, Maryland, from Its Founding as a Town to the Current Year, 1729-1898 Henry Elliot Shepherd,1898 Behavioural Finance William Forbes,2009-12-21 Behavioural Finance builds on the knowledge and skills that students have already gained on an introductory finance or corporate finance course The primary focus of the book is on how behavioural approaches extend what students already know At each stage the theory is developed by application to the FTSE 100 companies and their valuation and strategy This approach helps the reader understand how behavioural models can be applied to everyday problems faced by practitioners at both a market and individual company level The book develops simple formal expositions of existing attempts to model the impact of behavioural bias on investor managers decisions Where possible this is done grounding the discussion in practical numerical examples from the financial press and business life **Grain World** ,1921 **Proceedings of the ... International Conference on Facility Operations-Safeguards Interface** ,1992 The Tablet ,1912

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