

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

**Question No 1:** (3+3)

- a) Write an explicit formula for the following sequence and find the 19<sup>th</sup> 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

**Lingjun Ying**



## **Xtrem Past Papers:**

**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, 2005-07-05 This book offers a definitive and wide ranging overview of developments in behavioral finance over the past ten years In 1993 the first volume provided the standard reference to this new approach in finance an approach that as editor Richard Thaler put it entertains the possibility that some of the agents in the economy behave less than fully rationally some of the time Much has changed since then Not least the bursting of the Internet bubble and the subsequent market decline further demonstrated that financial markets often fail to behave as they would if trading were truly dominated by the fully rational investors who populate financial theories Behavioral finance has made an indelible mark on areas from asset pricing to individual investor behavior to corporate finance and continues to see exciting empirical and theoretical advances *Advances in Behavioral Finance Volume II* constitutes the essential new resource in the field It presents twenty recent papers by leading specialists that illustrate the abiding power of behavioral finance of how specific departures from fully rational decision making by individual market agents can provide explanations of otherwise puzzling market phenomena As with the first volume it reaches beyond the world of finance to suggest powerfully the importance of pursuing behavioral approaches to other areas of economic life The contributors are Brad M Barber Nicholas Barberis Shlomo Benartzi John Y Campbell Emil M Dabora Daniel Kent Fran ois DeGeorge Kenneth A Froot J B Heaton David Hirshleifer Harrison Hong Ming Huang Narasimhan Jegadeesh Josef Lakonishok Owen A Lamont Roni Michaely Terrance Odean Jayendu Patel Tano Santos Andrei Shleifer Robert J Shiller Jeremy C Stein Avanidhar Subrahmanyam Richard H Thaler Sheridan Titman Robert W Vishny Kent L Womack and Richard Zeckhauser **The New World**, 1919 **The Bookman**, 1901 **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

**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

**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

**Journal of the Transactions of the Victoria Institute, Or Philosophical Society of Great Britain** ,1885 **Journal** Manchester Geographical Society,1912 [The Journal of the Manchester Geographical Society](#) Manchester Geographical Society,1910 *The Price Current-grain Reporter Year Book ...* ,1921 [Grain World](#) ,1921 [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

[The Psychology of World Equity Markets](#) Werner Franciscus Marcel De Bondt,2005 Divided into two volumes the first volume reviews the scientific debate between leading behavioral scientists and proponents of rational

markets and rational economic man the second volume finds anomalies in financial decision making and in the behavior of equity markets that are interpreted in the context of empirical and theoretical research

**History of Baltimore, Maryland, from Its Founding as a Town to the Current Year, 1729-1898** Henry Elliot Shepherd, 1898

**The Tablet**, 1912

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