

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

William Forbes



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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, 2005-07-05 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 Francois 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 Avaniidhar Subrahmanyam Richard H Thaler Sheridan Titman Robert W Vishny Kent L Womack and Richard Zeckhauser 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 climatic 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

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