

Faculty of Computers & Artificial Intelligence 1st Term (December 2020) Midterm Exam Class: 2st Year Students Course Code: CS221 Subject: logic design



Benha University
Date: 10 / 12 /2020
Time: 60 Minutes
Total Marks: 20 Marks
Examiner(s): Prof. Dr. Hala Zayed
Dr. Alsa eldin Abdallah

Model Answer

Question No. 1

[5 Marks]

Perform the following operations:

- a) 1111+1100
- ...11011
- b) 10010110 101100 1101010
- c) 10100 ÷ 100 00101
- d) 010001010000 + 010000010111 in BDC format 450 + 417 = 867 --- also you can add in binary and then convert result to BCD

e) the standard form of expression (A + B' + C) (B' + C + D') the missing variable in the term (A + B' + C) = D or D', so add DD' to the term = (A + B' + C + D) (A + B' + C + D') the missing variable in the term (B' + C + D') is A or A', so add AA' to the term = (B' + C + D' + A) (B' + C + D' + A') So the standard form = (A + B' + C + D) (A + B' + C + D') (B' + C + D' + A) (B' + C + D' + A')

Question No. 2

[5 Marks]

a) what is the decimal value of the signed binary number expressed in 1's complement: 11101000?

Summing the weights where there are 1s, -128 + 64 + 32 + 8 = -24Adding 1 to the result, the final decimal number is = -24 + 1 = -23.

b) what is the equivalent octal number of the binary number: 100110011010?

100110011010 = 4632

Answer To Ucla Logic 20

Daniel Barbara, Chandrika Kamath

Answer To Ucla Logic 20:

UCLA .1980 Instructional Patterns Larry C. Holt, Marcella L. Kysilka, 2006 I like the mix of theory and research background with thorough descriptions of classroom use vignettes and how to s Teresa Secules Piedmont College Instructional Patterns Strategies for Maximizing Student Learning examines instruction from the learners point of view by showing how instructional patterns can be used to maximize the potential for students to learn This book explores the interactive patterns that exist in today's classroom and demonstrates how teachers can facilitate the interactivity of these patterns to match their goals for student learning These interactive patterns are reinforced through the incorporation of medical cognitive and behavioral neuroscience research This unique book will serve as a core text for undergraduate and graduate courses in K 12 General Teaching Methods Middle School and Secondary Teaching Methods Elementary Teaching Methods or Instruction and Assessment Key Features Guides students in differentiating instructional practices to meet the needs of all students as well as in the practical issues of instruction Details interactive instructional patterns that include teacher centered patterns teacher student interactive patterns and student centered patterns Instructor Resources on CD contains PowerPoint slides test questions includes Multiple Choice Short Answer and Essay format and answers lecture outlines teaching activities Web resources and sample syllabi A web based Student Study Site provides e flashcards links to standards from U S states standards based project Web resources and access to full text articles in SAGE journals related to Proceedings 1988 VLDB Conference Francois Bancilhon, David J. DeWitt, 1988-12 **Scientific and Technical** the text **Mathematical Reviews** ,2006 Sagalee Haara ,1994 Everything for Math and Aerospace Reports ,1977 Reading, Grade 4,2012-09-01 Everything for Math and Reading is the perfect practice tool that every fourth grader needs to achieve success in school Children work through fun and engaging activities that provide skill and drill in important reading and mathematical skills This 320 page workbook is full of bold appealing illustrations that motivate young learners and features practice pages to ensure children master the essential skills This workbook also includes a complete answer key and easy to understand directions Features Problem solving Deductive and analytical thinking Advanced math concepts Multiplication division Fractions Pre algebra Reading comprehension Cause effect Research skills Very Large Data Bases ,1988 Right from the Start Robert Holkeboer, 1995 This college orientation text emphasizes self management and strategic planning by reinforcing the principles of a long acclaimed corporate tool called Continuous Quality Improvement teamwork creative thinking and problem solving in small groups making decisions on the basis of data and the fervent desire to continuously improve ones products and services Through a variety of lively hands on activities and exercises students are encouraged to think about their habits and how they relate to the topics of each chapter They are then directed to take what theyve learned and come up with an action plan to effect positive change in their lives **Public Affairs Information** Service Bulletin ,1974 NSPI Newsletter National Society for Programmed Instruction, 1962 *Proceedings of the Third* SIAM International Conference on Data Mining Daniel Barbara, Chandrika Kamath, 2003 We are very pleased to present the proceedings of the 2003 SIAM International Conference on Data Mining The field of Data Mining has seen a tremendous increase of interest in recent months Applications of Data Mining are mentioned often in the daily press especially in the fields of security and forensics Thus these are exciting times for researchers and practitioners in the area We hope that the research captured by these proceedings helps in advancing this important field **Computer Design**, 1968

Continuing Education ,1973 Educational Film & Video Locator of the Consortium of College and University Media Centers and R.R. Bowker Consortium of College and University Media Centers,1990 Cumulative Computer Abstracts: Computer applications: CU artificial intelligence; CV linguistics, textual data processing and the liberal arts; CW life science and engineering; CX physical science and engineering; CY control engineering; CZ management, gevernment and education Geoffrey Knight,1969 Los Angeles Times ,1973 Connections ,1997 Applied Radiology ,2005 Each issue includes separate but continuously paged sections called Nuclear medicine and Ultrasound Excerpta Medica ,1990 Ten issues per volume Arranged under general aspects biostatistics and biometrics health care epidemiology screening and prevention populations at risk food and nutrition life styles and evaluation of interventions Entries givebibliographical information abstract and cross references Subject author indexes

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