

**FIRST SEMESTER B.A./B.Sc. DEGREE EXAMINATION
NOVEMBER 2019**

(CBCSS—UG)

Computer Science

BCS 1C 01—COMPUTER FUNDAMENTALS

(2019 Admissions)

24

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)

(Answer all questions, each correct answer carries a maximum of 2 marks. Ceiling 20 marks).

- ✓ 1. What is the function of ALU ?
- ✓ 2. What are error-detecting and correcting codes ?
3. What is the principle of duality in Boolean algebra ?
- ✓ 4. What is a subtractor ?
- ✓ 5. Differentiate bit, byte and nibble.
- ✓ 6. Explain Read Only Memory.
- ✓ 7. List any four secondary storage devices.
- ✓ 8. Name any four input devices.
- ✓ 9. What is a video digitizer ?
- ✓ 10. What do you mean by 1's complement of a binary number ?
- ✓ 11. What are logic gates ?
- ✓ 12. Write an algorithm to find the biggest of three numbers.

13

Section B (Short Essay Type Questions)

(Answer all questions, each correct answer carries a maximum of 5 marks. Ceiling 30 marks).

- ✓ 13. Convert the octal number $(145.23)_8$ to binary, decimal and hexadecimal number systems.
- ✓ 14. With a diagram explain the functional units of a computer.

Turn over

Computer Practical 2013 Question Paper Bsc

Michael Seilmaier



Computer Practical 2013 Question Paper Bsc:

GPU Pro 360 Guide to Image Space Wolfgang Engel, 2018-12-03 Wolfgang Engel's GPU Pro 360 Guide to Image Space gathers all the cutting edge information from his previous seven GPU Pro volumes into a convenient single source anthology that covers various algorithms that operate primarily in image space This volume is complete with 15 articles by leading programmers speaks to the power and convenience of working in screen space GPU Pro 360 Guide to Image Space is comprised of ready to use ideas and efficient procedures that can help solve many computer graphics programming challenges that may arise Key Features Presents tips tricks on real time rendering of special effects and visualization data on common consumer software platforms such as PCs video consoles mobile devices Covers specific challenges involved in creating games on various platforms Explores the latest developments in rapidly evolving field of real time rendering Takes practical approach that helps graphics programmers solve their daily challenges

Engineering Drawing with CAD Applications O. Ostrowsky, 2019-10-25 Engineering Drawing with CAD Applications is ideal for any engineering student needing a user friendly step by step guide to draughting sketching and drawing Fully revised to take into account developments in computer aided drawing and to keep up with British Standards this guide remains an ideal introduction to the subject It provides readers with the basic knowledge and skills of draughting and takes them on to more interesting and advanced engineering drawing techniques and procedures This latest revision of Ostrowsky's popular Engineering Drawing represents a comprehensive introductory course in engineering drawing and sketching and is suitable for a wide range of college and university engineering students The author concentrates on the techniques fundamental to effective drawing key knowledge that is needed whether the drawings are carried out by hand or via a CAD package Copious illustrations and a clear step by step approach make this book ideal for distance learning and assignment based study

Proceedings of the 12th European Conference on Information Warfare and Security Rauno Kuusisto, Erkki Kurkinen, 2013-11-07

Network Science Carlos Andre Reis Pinheiro, 2022-11-08 Network Science Network Science offers comprehensive insight on network analysis and network optimization algorithms with simple step by step guides and examples throughout and a thorough introduction and history of network science explaining the key concepts and the type of data needed for network analysis ensuring a smooth learning experience for readers It also includes a detailed introduction to multiple network optimization algorithms including linear assignment network flow and routing problems The text is comprised of five chapters focusing on subgraphs network analysis network optimization and includes a list of case studies those of which include influence factors in telecommunications fraud detection in taxpayers identifying the viral effect in purchasing finding optimal routes considering public transportation systems among many others This insightful book shows how to apply algorithms to solve complex problems in real life scenarios and shows the math behind these algorithms enabling readers to learn how to develop them and scrutinize the results Written by a highly qualified author with significant experience in the

field Network Science also includes information on Sub networks covering connected components bi connected components community detection k core decomposition reach network projection nodes similarity and pattern matching Network centrality measures covering degree influence clustering coefficient closeness betweenness eigenvector PageRank hub and authority Network optimization covering clique cycle linear assignment minimum cost network flow maximum network flow problem minimum cut minimum spanning tree path shortest path transitive closure traveling salesman problem vehicle routing problem and topological sort With in depth and authoritative coverage of the subject and many case studies to convey concepts clearly Network Science is a helpful training resource for professional and industry workers in telecommunications insurance retail banking healthcare public sector among others plus as a supplementary reading for an introductory Network Science course for undergraduate students

Metaverse in Education: Opportunities and Challenges Sajjad Hussain, Kathleen Meehan, Junaid Qadir, 2024-04-30

Who's Who in Science and Engineering 2008-2009 Who's Who Marquis, Marquis Who's Who, 2007-12

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Who's Who in the World, 1995 Marquis Who's Who, 1995-12 This single volume affords instant access to more than 35 000 individual biographies of the people whose activities are shaping today s world Among those profiled are prominent government figures high ranking military officers leaders of the largest corporations in each country heads of religious organizations pioneers in science the arts many more

Computer Science Question Bank S K Basandra,

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