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computer fundamentals is specifically designed to be used at the beginner level it covers all the basic hardware and software concepts in computers and its peripherals in a very lucid manner

the sixth edition of the highly acclaimed fundamentals of computers lucidly presents how a computer system functions both hardware and software aspects of computers are covered the book begins with how numeric and character data are represented in a computer how various input and output units function how different types of memory units are organized and how data is processed by the processor the interconnection and communication between the i o units the memory and the processor is explained clearly and concisely software concepts such as programming languages operating systems and communication protocols are discussed with growing use of wireless to access computer networks cellular wireless communication systems wifi wireless high fidelity and wimax have become important thus it has now become part of fundamental knowledge of computers and has been included besides this use of computers in multimedia processing has become commonplace and hence is discussed with the increase in speed of networks and consequently the internet new computing environments such as peer to peer grid and cloud computing have emerged and will change the future of computing hence a new chapter on this topic has been included in this edition this book is an ideal text for undergraduate and postgraduate students of computer applications bca and mca undergraduate students of engineering and computer science who study fundamentals of computers as a core course and students of management who should all know the basics of computer hardware and software it is ideally suited for working professionals who want to update their knowledge of fundamentals of computers key features fully updated retaining the style and all contents of the fifth edition in depth discussion of both wired and wireless computer networks extensive discussion of analog and digital communications advanced topics such as multiprogramming virtual memory dma risc dsp rfid smart cards wigig gsm cdma novel i o devices and multimedia compression mp3 mpeg are described from first principles a new chapter on emerging computing environments namely peer to peer grid and cloud computing has been added for the first time in an entry level book each chapter begins with learning goals and ends with a summary to aid self study includes an updated glossary of over 340 technical terms used in the book

computer fundamentals and programming has an organized and accessible format that allows students to learn important concepts in an easy to understand question and answer format this portable learning tool has been designed as one stop reference for students to understand and master the subject

this meticulously organized book dwells on fundamentals that one must learn in order to pursue any venture in the computer field this book has 13 chapters each chapter covering basic as well as advanced concepts designed for undergraduate students of commerce and management as per the syllabus of different indian universities fundamentals of computers may also be used as a textual resource in training programmes offered by computer institutes and as a self study guide by professionals who want to improve their proficiency with computers

in today s world computers have become an integral part of our lives they are being used in every sphere of human activity whether it is at home at office or at play fields like education entertainment medicine banking and telecommunications have been greatly influenced by the use of computers this pervading presence of computers has made it necessary for everyone to have a fundamental knowledge of the subject keeping pace with this trend most of the universities and institutes have integrated the study of computers in their curriculum the book fundamentals of computers has been written to meet the requirement of the modern curricula and it presents the fundamentals of computers in a format that is easy to understand the book fundamentals of computers studies is developed using business studies jss and sss nigerian education research and development council nerdc syllabus and the national curriculum for senior secondary school computer studies syllabus it highlights the scope of the course for computer studies examinations at this level its structuring revolves around conceptual approach the major thematic areas considered in the entire book include computer fundamentals and evolution types of computers categories of computer systems storage devices and media computer hardware computer software basic computer operations computer applications managing computer files developing problem solving skills information and communication technology computer ethics and human issues programming methods for programme application software a word processor spreadsheets interactive computing and networks program programming programming languages computer viruses presentation programme powerpoint application software a word processor database software access and computer glossy each thematic area forms a concept which is further divided into sub concepts a fundamental of computers studies was specially designed as a text book to all computer users including students in junior and senior secondary school of learning the course objectives summary and evaluation guides is included to assist both students and teacher to acquire skill in computer technology and also to prepare them for neco wassec gce computer studies examination the activities and revision question introduced at the end of each chapter will help in sharpening student s understanding of what is being taught and also assist teachers in their assessment of student achievement the book fundamentals of computers studies contains also reading materials for higher learner

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with the invention of computers and the advent of the internet mobile computing and e business applications information technology it has brought rapid progress in domestic and international business and a tremendous change in the lifestyle of people this book provides the students not just the knowledge about the fundamentals of a computer system like its organization memory management and hardware devices but also the software that run on it the book then proceeds to describe operating systems and the basics of programming concepts like procedure oriented programming and object oriented programming useful application software like ms word ms excel and ms powerpoint are described in great detail in separate chapters a complete section has been devoted to the teaching of data communication networking and internet the book ends with a detailed description of the business applications of computers key features incorporates basics of it along with developing skills for using various it tools includes diagrams pictures and screenshots provides key terms review questions practical exercises group discussions project activities and application based case studies in each chapter follows the latest curriculum and guidelines for undergraduate and postgraduate courses of various universities colleges and institutes

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