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TRANSFORMER

WORKING PRINCIPLE

- A transformer is a static piece of apparatus by means of which electric power in one cut. is transformed into electric power of the same frequency in another circuit.
- It can raise or lower the voltage in a cut. but with a corresponding decrease or increase in current.
- The physical basis of a transformer is mutual induction between two circuits linked by a common magnetic flux.
- It consists of two inductive coils which are electrically separated but magnetically linked through a path of low reluctance.
- If one coil is connected to a source of alternating voltage, an alternating flux is set up in the laminated core, most of which is linked with other coil in which it produces mutually induced e.m.f. (i.e. $e = M\frac{dI}{dt}$)
- A transformer is a device that
  1. Transfers electric power from one circuit to another circuit
  2. It does so without a change of frequency
  3. It is done by electromagnetic induction.

CONSTRUCTION

Main parts of a transformer are
1. Two windings (primary & secondary)
2. Laminated steel core
3. Suitable container for assembled core and winding
4. Suitable medium for insulating the core and its windings from its container
5. Suitable bushings for insulating and bringing out the terminals of windings from the tank.
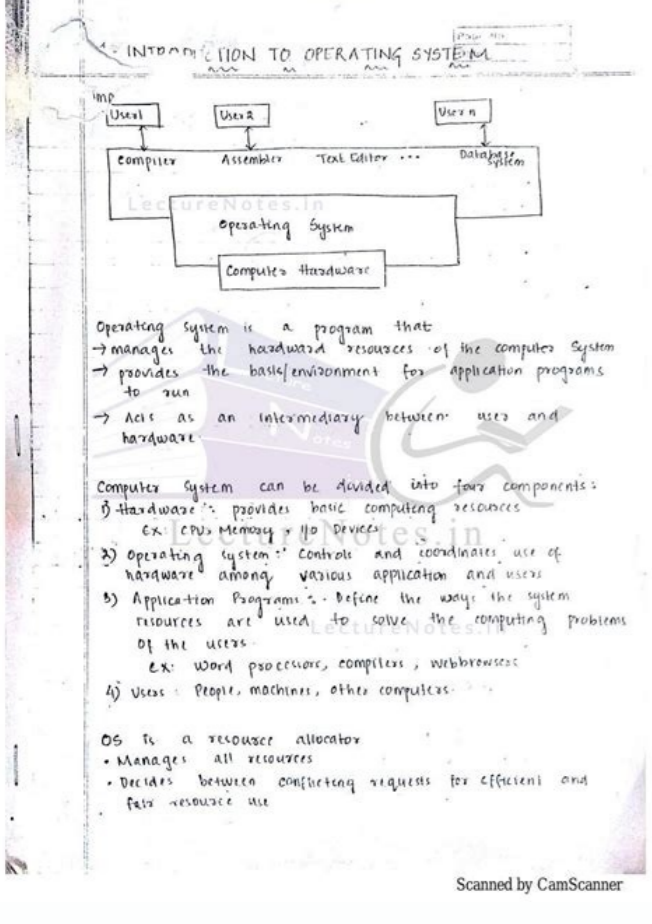

SRI KRISHNA COLLEGE OF TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG
RENEWABLE ENERGY SYSTEMS

UNIT – I INTRODUCTION
PART-A (2 Marks Questions)

1. Define Energy Efficiency.
2. What are all the needs and advantages of Renewable Energy Sources and compare with other sources?
3. Mention the importance of energy conservations.
4. Mention the basic classification of energy.
5. Define energy security.
6. What is meant by energy conservation?
7. Differentiate between energy conservation and energy efficiency.
8. What is meant by Greenhouse effect?
9. Name any three places of oil located in India.
10. What is an energy audit? And mention its importance.
11. Define Solar constant.
12. Differentiate between direct radiation and diffusion radiation.
13. How solar air collectors classified? And what is meant by space heating?
14. What are the main components of a flat-plate solar collector?
15. Mention the non-conventional energy sources available in India.
16. Where the wind energy units are installed in India?
17. What is the energy consumption in India?
18. The per capita energy consumption in India is 150kWh. India, a developing
19. country with 20% of the world's population consumes only 1% of the total energy consumed in the world.
20. What are the primary energy sources?
21. What are secondary energy sources?
22. State 4 non commercial energy sources which are posed for commercialization.
23. List 4 commercial energy sources.
24. List four non commercial energy sources.
25. Define Renewable energy sources.
26. What are the advantages of Renewable energy?

PART-B (16 marks)

1. Discuss the following.
   a. India energy scenario and Statistical Report on Renewable energy scenario in India.
   b. Global primary energy resources.
2. Explain the following
   a. Energy conservation and importance
   b. Explain the greenhouse effect.
   c. Energy strategy for the future.
3. Discuss about Environmental aspects of energy utilization.
4. Energy sources and their Availability in India and world
5. Explain in detail about energy conservation act 2001 and 2001
6. Explain in detail about electricity act 2003.
7. Write short notes about solar energy storage systems.
8. What are the different types of solar collectors? And explain.
9. With neat diagram, explain in detail about different types of solar heating systems.
10. Give your opinion on Nuclear energy option for India, indicating its merits and demerits. (16)
11. (a) Comment on the economic visibility of Tidal power plants. (8)
12. (b) Write a note on Economical justification of Geo-thermal plants. (8)
13. What are the unconventional sources of energy? How would you use them for energy supply options? Why is there need to develop these sources? (12)
1. Explain a method to estimate the commercial non commercial and electric
2. energy demand. (12)

Logical organisation of computer notes. Logical organisation of computer bca notes. Logical organisation of computer by sushil goel. Logical organisation of computer book. Logical organisation of computer pdf. Logical organisation of computer mcq. What is a logical organization. Logical organisation of computer by sushil goel pdf.

The opposite of Logico is physical, which refers to the true organization of a system. For example, the ALU addition circuit has input corresponding to all the bits of the two numbers to be added and the outputs corresponding to the bits of the sum. Gui allow users to communicate with the computer with means as simple as indicating an icon with a mouse or touching it with a stylus or index. This is the way the files appear to users. The arrangement of threads and gates that connect the inputs to the outputs is determined by the mathematical definition of addition. Hack in this quiz and let a little technology mark your score and reveal the content. Computer science are also involved in creating computers assisted design tools (CAD) that support engineers in the various phases of the chip design and in the development of the necessary theoretical results, such as how to efficiently design a plant with an almost minimal area that satisfies The constraints indicated. (2) refers to any Boolean logical operation. For example, a cycle would be needed to calculate the sum of the first whole n, in which there is a value stored in a separate memory position. The applications of fine arts allow artists to use the computer screen as a means of creating images, special cinematographic effects, cartoons and television commercials. At this level, the operation of a computer is not very different from that of a pocket calculator. What is the architecture and organization of the computer? Even more important, computer languages include conditional instructions - essentially, rules that affirm: "If the position of memory n satisfies the condition A, the following number x instructions, otherwise do instructions y. This allows the the course of a program to be determined by the results of the previous operations - essential. I public our CoA tutorial is designed to help beginners and professionals. This phenomenon has been called the problem of "data". Many many Fixed images are inadequate and a quick display of images in real time is required. The term virtual reality was coined to refer to any interaction with a virtual world simulated to the computer. Brain cancer; Magnetic resonance imaging (MRI) an image, produced by magnetic resonance imaging (MRI), of a human brain affected by cancer. Computer architecture deals with the design of computers, data storage devices and networking components that archive and perform programs, transmit data and transmit interactions between computers, between networks and users. The additional i/o controllers connect the computer to a network via doors that provide the duct through which the data flows when the computer is connected to the internet. This instruction loads the content of the position of memory 10 in the AUT. They can be attached permanently or temporarily to the computer in the form of a disc (CD), a digital video disk (DVD) or a memory stick (also called a flash unit). USBFLASH-MEMORY DRIVE WITH USB SUL A. LORD-LORD. REGULARE T/SHUTSTERSTOCK.com The functioning of a computer, once a program and some data have been loaded in the RAM, they take place as follows. This field includes the efficient implementation of four related computational tasks: rendering, modeling, entertainment and display. The Alu performs simple additions, subtraction, multiplication, division and logic, such as O e e e e. The current research includes the design of the cache and the algorithms that may include which data are probably subsequent and preload them in the cache to improve performance. However, if you find someone, you can publish the questions in the contact form. Computational science has evolved rapidly, above all because of the dramatic growth volume of data transmitted by scientific tools. Graphics applications include CAD, fine arts, medical imaging, viewing scientific data and video games. Both extremely extremely Cutting -edge algorithms and hardware are necessary to create animations in real time. The mathematical methods necessary for computational science require the transformation of equations and functions from the continuous to discreet. The computer organization and the architecture tutorial provide in -depth knowledge of internal work, the structuring and implementation of a computer system. Finally, the programs generally contain instruction sequences that repeat more times until a predetermined condition becomes true. The edges must be smooth and structured so that their construction underlying by polygons is not obvious to the naked eye. Medical imaging applications involve the display of data obtained from technologies such as X -rays and magnetic resonance imaging (Mris) to help doctors diagnosed with medical conditions. Further memory and I/O control circuits are connected to this chip to form a complete computer. Graphic techniques incorporate the principles of linear algebra, numerical integration, computational geometry, hardware for special purposes, file formats and graphic user interfaces (GUI) to carry out these complex activities. The requirements of the scientific problems of the great data, including the solution of systems increasingly largely of equations, involve the use of large and powerful matrices of processors (called multiprocessors or supercomputer) that allow many calculations to proceed in parallel assigning them to separate elements processing. The I/O controller connect the computer to specific input devices (such as keyboards and touchscreen display) for power supply to memory and output devices (such as printers and views) for the transmission of information from memory to users. Considering that the organization of an IT system defines the way in which the It is structured so that you can use all those tools cataloged. These disciplines include biology, chemistry, fluidodynamics, archeology, finance, finance, and forensic. For example, a logical description of a bit that it is a collection of data stored together. Due to the need for efficiency, logical design must also optimize the circuits to work with the utmost speed and has a minimum number of doors and circuits. The computer science are involved in the analysis of these replicated systems, providing theoretical approaches to the estimate of the reliability achieved by a certain configuration and parameters of the processor, such as the average time between the failures and the average time required to repair the processor. Turing complexit is a fundamental and essential feature of any computer organization. Considering that the organization defines the way in which the system is structured so that all those cataloged tools can be used correctly. Memory stores the instructions and data of the program. The significant components of the IT organization are Alu, CPU, Memory and Memory Organization. Connected to controllers I/O are secondary storage devices, such as a disco unity, which are more slow and have a greater ability than the main memory or cache. Since user interfaces must host a variety of styles and user skills, HCI research is based on different disciplines including psychology, sociology, anthropology and engineering. The graphics also provides realistic views for video games, flight simulation and other representations of reality or imagination. In the same way, the solution of a differential equation is obtained as a sequence of determined discrete points by approximately approximately the curve of the real solution by means of a segment of tangential line segments. If the systems are fundamental as their failure would be potentially disastrous (as in the aircraft control), the incompatible results collected processes replicated in parallel on separate machines are resolved by a voting mechanism. Therefore, the HCI field emerged to model, develop and measure the effectiveness of various types of interface interfaces an application of computers and the person who accesses his services. Computer architectures that can perform instruction sequences, conditional instructions and loops are called "complete", which means that they can perform the execution of any algorithm that can be defined. Computers and quiz technology host websites made up of HTML and send simple text messages such as ... LOL. This sequence is called loop. Physically, however, a single file can be divided into many pieces scattered on a disk. The first instruction is transferred by the RAM in the control unit and interpreted by the hardware circuits. The progress in integrated circuits technology have been incredible. Problem that we can make sure you will not find any problem in this tutorial. Applications such as control of the control and production processes of aircraft perform systems with backup processors ready to take over if the main processor fails and the backup systems often work in parallel, so the transition is regular. The control unit then loads the content of the position of memory 15 in alu and adds it to the number already there. For example, the integration of the computer of a function on an interval is not built not by applying the full calculation but rather approximating the area in the graphic designer of the functions as the sum of the areas obtained from the evaluation of the function in discrete points. These activities have aroused a lot of interest in parallel computer architecture and algorithms that can be performed efficiently on these machines. The Power7 chip introduced in 2010 by IBM contained about 1 billion transistor. With the advent of Personal Computer more user-friendly in the 80s, the user interfaces have become more sophisticated, so that the user can "point and click" to send a command to the operating system. control design provides the circuits that interpret the instructions. Finally, the instruction shop 20 20 It memorizes that sum in position 20. The graphics and visual calculation are the field that deals with the display and control of the images on the screen of a computer. For example, an advantage of a distributed database is that the data replicated on different network hosts can provide a natural backup mechanism when a host fails. Computers also have another level of memory called cache, a small, extremely fast unity (compared to the main memory or the random access memory [RAM]) which can be used to archive information urgently or frequently necessary. For example, in 1971 the first microprocessor chip (the 4004 of Intel Corporation) had only 2,300 transistors, in 1993 the Pentium Intel chip had more than 3 million transistors and in 2000 the number of transistors on such a chip concerned 50 millionNext Topicca vs Co (1) refers to the vision of a user of the way the data or systems are organized. Our tutorial on organization and computer architecture includes all topics such as Introduction, ER, Keys, Relational Model, Join Operation, SQL, Functional Dependence, Transaction, Competition Control, etc. Starting images are presented on the screen realistic, each object must be rendered as a set of planar units. In general terms, the architecture of a computer system can be considered as a catalog of tools or attributes visible to the user as an instructions set, number of bits used for data, directivement techniques, etc. The user interface has an impact on the software life cycle, therefore it should occur at the beginning of the design process. The phenomenon of the number of transistors in an integrated circuit that doubles about every two years is widely known as Moore's law. HCI occurs on an interface that includes software e Several factors must be considered when numerical methods apply: (1) the conditions according to which the method produces a solution, (2) the accuracy of the solution, (3) if the The process is stable (that is, it does not show a growth in errors) and (4) the computational complexity (in the sense described above) to obtain a solution of the desired accuracy. The CAD systems allow the use of the computer for the design of objects ranging from car parts to bridges to computer chips providing an interactive design tool and an engineering interface to simulation and analysis tools. In general, the programs are not only long sequences of loading, storage and arithmetic operations. Gordon E. Scientific visualization uses enormous quantities of data to define simulations of scientific phenomena, such as ocean modeling, to produce images that provide more information on the phenomena compared to the numbers of numbers. To ensure failure tolerance, the key components are often replicated so that the backup component can take over if necessary. As shown in the logarithmic graph of the number of transistors on Intel processors at the time of their introduction, his "Law" was obeyed. The central processing unit [CPU].) When you meet an input or output education, the control unit transfers the data between the memory and the designated controller. Computer architecture requires strong communication between computer scientists and IT engineers, both both focus on hardware design. Prerequisite before learning the concepts of architecture and computer organization, you should have a basic knowledge before computer architecture, basic functional units of a computer system, etc. This technology also supports window environments on a computer screen, which allow users to work with different applications simultaneously, one in each window. Logic Design is the information technology area that yes of the design of electronic circuits using the fundamental principles and properties of logic (see Booleano Booleano To carry out the control operations, the AUU, the I/O controllers and other hardware. Numerical analysis is the study of these computational methods. At its most fundamental level, a computer consists of a control unit, a logical arithmetic unity (ALU), a memory unity and input/output controller (I/O). All these components - The control unit, the Alu, the memory and the I/O controllers are made with transistor circuits. The bright blue area indicates that cancer spread to the occipital lobe (at the bottom right). Â © Fotodis/Thinkstock A challenge for computer graphics is the development of efficient algorithms that manipulate the myriad of lines, triangles and polygons that make up an image computer. These devices in size of a miniature contain millions of transistors that implement the units of processing and memory of modern computers. The design of the VLSI microprocessor occurs in a series of phases, including the creation of the functional or initial behavioral specifications, codifying this specific in a hardware description language and breaking down the design in modules and generations of dimensions and shapes for the chip components possible. Computational science applies the simulation of the computer, scientific visualization, mathematical modeling, algorithms, data structures, the network, database design, symbolic calculation and high -performance calculation to help make the objectives of various disciplines. For example, suppose that education is a bit string that is the code for Load 10. (For more technical details of the graphic displays, see the computer graphics.) The human-computer interaction (HCI) deals with Designing an effective interaction between users and computers and construction of interfaces that support this interaction. The operational speed of the CPU mainly determines the of the computer as a whole. Disco units are used for the maintenance of permanent data. Every logical function (e, or e e e It is made by a particular type of device called Gate. Computer architects use parallelism and various strategies for the organization of memory to design processing systems with very high performance. An important area relating to architecture is the design of microprocessors, which are complete CPU - control unit, alu and memory - on a single integrated circuit chip. It also implies the planning of the chip, which includes the construction of a "crazy" plan to indicate where on the chip each component should be positioned and connected to other components. The control unit recovers the data and instructions from memory and uses the AUU operations to perform these instructions using such data. In the 1960s, the user interfaces consisted of computers for computers that allowed an operator directly to type commands that could be performed immediately or in a future time. The tolerance to errors is the ability of a computer to continue operation when one or more of its components fail. Blot tolerance is also a desirable feature in the systems and networks distributed. If discreet in this way, many problems can be refused as an equation involving a matrix (a rectangular matrix of numbers) solved using the linear algebra. The next education, let's say add 15, is recovered. Moore observed that the number of transistors on a computer chip doubled every 18 "24 months. Months.

develop logical, critical and creative thinking; employ and refine their powers of abstraction and generalization. Students are also encouraged to appreciate the international dimensions of mathematics and the multiplicity of its cultural and historical perspectives. 02/02/2022 · To help students, we have started a new series call Computer Awareness for Competitive Exams. In this post, our team has brought some of the well-compiled MCQ on DBMS asked in Competitive Exams. These MCQ's practice sets in Database Management System are the best way to check your computer knowledge before going for any competitive exams. Forms of the business organization depend on the criteria like the nature of the business, size of operations and on many more things. Here let us take a look at the various forms of business organisation and some important points about business ownership. Introducing Understanding Organisation and Context. Clause 4.1 of the ISO 27001 requirements is about understanding your organisation and its context. It marks the entry point into the ISO 27001 standard and underpins the building and management of your Information Security Management System (ISMS).You need to outline how your organisation defines: 18/05/2016 · Computer Organization and Architecture. 1. Mr. Navneet Soni Asst. Professor GDRCST, Bhilai 2. these properties, which directly affect the logical working of a program; the attributes, which are apparent to a programmer Examples: instruction set and formats, techniques for addressing memory, number of bits used to represent data Navneet Soni (Asst. Professor) ... 18/04/2022 · The basic computer has 16-bit instruction register (IR) which can denote either memory reference or register reference or input-output instruction. Memory Reference – These instructions refer to memory address as an operand. The other operand is always accumulator. Specifies 12-bit address, 3-bit ... The Singapore CA Qualification is the national CA qualification, developed by the Singapore Accountancy Commission (SAC), and administered by the Institute of Singapore Chartered Accountants (ISCA). SAC is a statutory body under the Ministry of Finance.

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