Subject: Computer Science and Agriculture Statistics

CHAPTER 1

Introduction to Computer

Write down the definition of computer, Data Information, problem? 0.1 Definition:

A Computer is an electronic device that can perform activities that involve Mathematical, Logical and graphical manipulations. Generally, the term is used to describe a collection of devices that function together as a system.

It performs the following three operations in sequence.

- 1. It receives data & instructions from the input device.
- 2. Processes the data as per instructions.
- 3. Provides the result (output) in a desired form.

Data :

Ans.

It is the collection of raw facts, figures & symbols.

Ex: Names of students and their marks in different subjects listed in random order.

Information:

It is the data that is processed & presented in an organized manner.

Ex: When the names of students are arranged in alphabetical order, total and average marks are calculated & presented in a tabular form, it is information.

Program:

Set of instructions that enables a computer to perform a given task.

Q/ Write down the advantage & disadvantage of computers?

Advantages of computers:

1. High speed:

Computers have the ability to perform routine tasks at a greater speed than human beings. They can perform millions of calculations in seconds.

2. Accuracy:

Computers are used to perform tasks in a way that ensures accuracy.

3. Storage:

Computers can store large amount of information. The computer at lightning speeds can retrieve any item of data or any instruction stored in the memory.

Computers can be instructed to perform complex tasks automatically (which increase 4. Automation : ...

the productivity)

5. Diligence : वरिअम

Computers can perform the same task repeatedly & with the same accuracy withou

6. Versatility : अपिपेली

Computers are flexible to perform both simple and complex tasks

Cost effectiveness :

Computers reduce the amount of paper work and human effort, thereby reducing

Limitations of computers : -

- required result. the instructions are not clear & complete, the computer will not produce th Computers need clear & complete instructions to perform a task accurately.
- Computers cannot think
- Computers cannot learn by experience
- A computer has no brain of its own. It simply executes the instructions given by the user, as long as it can understand them, no matter whether they are right o

Q.3. Write in brief the history of computers? History of Computers:

quantities as binary numbers i.e. Os and 1s and also represent and manipulate logical which is now called as Boolian Algebra. This Boolian algebraic system is used to represen Around 1850, when George Boole, a mathematician, developed an algebraic system

century, around 1880, Herman. Hollerith developed techniques and machines that had Machine Corporation (IBM). Today, IBM is one of the largest companies in the computer was represented in the form of punched holes on paper cards. He set up his own company significant impact on the future design of computers. He designed a machine in which data Computing Tabulating Recording Company" which eventually became International Business The significance of Boolian Algebra was not utilized at that time. In the nineteently

Early Computers:

 $2.4~\mathrm{m} \times 0.6~\mathrm{m}$. This was the immediate predecessor of automatic electronic computers. called MARK I with a number of switches, mechanical relays and cards. The size was 15 m x In 1937, Howard Alken, of Harward University, designed a huge mechanical calculator

Computer Science and Agriculture Statistics

water colled and much faster than MARK I. electronic calculator. It occupied a room of 15 m x 9 m and its weight was 30 tons. It was ENIAC (Electronic Numerical Integrator And Calculator) designed in 1946 was the first

Computer) was designed which was based on Neumann's idea Around 1950, a Computer named EDVAC (Electronic Discrete Variable Automatic

First Generation of Computers (1946-1955)

heat. Hence, special air conditioning arrangements were required to dissipate this heat. They were extremely large with vacuum tubes in their circuitry, which generated considerable The computers manufactured between 1945-55 are called first Generation Computers

today's computers They were extremely slow and their storage capacity was also very less compared to

Second Generation Computers (1956-1965)

semiconductors, were called second generation Computers The Computers in which vacuum tubes were replaced by transistors, made from

Third Generation Computers (1966-1976)

Circuits (IC) in the circuitry The third generation computers started in 1966 with incorporation of Integrated

and multiprogramming also. IBM 360 series computers in this generation had provisions for facilitating time sharing

compared to the ones in second generation] Other developments that took place during the terminals could use central computer facilities and get the results, instantaneously. period include user friendly package programs, word processing and remote terminals. Remote Computers: Storage capacity and speed of these computers was increased many folds as These were small size and cost effective computers compared to Second Generation

Fourth Generation Computers

a single chip. Because of this technique, the storage capacity is increased many folds. Not only that, the speed of these computers is also very high as compared to earlier computers with other LSI chips, with compact size, increased speed and increased storage capacity. In used in these computers. Micro Computers were developed by combining microprocessor Computers. I hrough this technique, more than 1000 electronic components can be put on recent days, Jos fabricated using VLSI (Very Large Scale Integration) technique are used in techniques Microprocessors, which are programmable Ics fabricated using LSI technique, are electronic components were further miniaturized through Large Scale Integration (LSI Fourth Generation Computers were introduced after 1976 and in these computers

market. These computers perform operations with exceptionally high speed (approx. 100 million operations per sec). This speed is attained by employing number of microprocessors During 1980s, some computers called as super computers were introduced in the

Computer Science and Agriculture Statistics of information technology (II), including software, hardware, and data often perform these operations. To be a competent end user, you must understand the essentials developing software, and computing data. In micro computer systems, however, end users total wages owed you for a week's work. through the computer, it is usually called information. An example of such information is the sounds. Examples of raw facts are hours you worked and your pay rate. After data is processed and other devices. Hardware is controlled by software. It actually processes the data to create data (unprocessed facts) in to information (processed facts) instructions that tell the computer how to do its work. The purpose of software is to/convert Procedures are rules or guidelines for people to follow when using software, hardware and data. Typically, these procedures are documented in manuals written by computer specialists. Software and hardware manufacturers provide manuals with their products. a.स. त तारा हुने होते. productive. that is what microcomputers are all about -making people, end users like yourself, more 0.4. like arterial intelligence etc. simultaneously to perform an operation. These computers have very complex circuitry and ind consequently there cost is also very high. These are normally used in very complex applications institutions in the consequent of the cost is also very high. In large computer systems, there are specialists who deal with writing procedure, Data consists of the raw, unprocessed facts, including text, numbers, images, and 5. Data: The hardware consists of the equipment; keyboard, mouse, monitor, system unit, 4. Hardware: Software is another name for programs. A program consists of the step by step 2. Procedures: What are the anatomy of computer OR Write down the information system of It is easy to over look people as one of the five parts of a microcomputer system. Yet I people: Anatomy of Computer CHAPTER 2 (524)by the CPU, the results are passed on to the user through an output device. input devices. However, the description of a task may be ted through only one device at a is 'led' or given as input to it through an input device. A computer could have one or more between the user and the computer. A description of the task to be performed by the computer doing what it is generally desired to do by a users. Hence arises a problem of communication as input device. Where does this description go after fed through our ears? We know it description of the method of solution. This description is fed to us through our ears which act mouse. Output devices translate the processed information from the computer in to a that the computer can process. The most common input devices are the keyboard and the computer through an input device, is stored in the memory of the computer form that humans can understand. The most common output devices are monitors or Q.5 Write down the function of input & out put devices? Computer Science and Agriculture Statistics Central Processing Unit (CPU) that interprets this and the operations needed to perform the resides in the storage cells of our brain. Analogously, the description (information) fed to the task as per description are executed by the CPU. These operations include anthmetic operations video display screens and printers. Input devises translate data and program that humans can understand into a form If somebody were to tell us how to solve a quadratic equation, he would give a A Computer is designed to perform variety of tasks. However, it is supposed to be Data as well as instructions are fed through an input device. Once the data is processed After the task description is fed and stored in the memory of the computer, it is the Input and Output Devices CHAPTER 3

like addition, subtraction, multiplication and division. It can also perform variety of of one the instructions in the user program. operations like logical operations, controlling flow of data/information, coordinating operations by all the devices connected to CPU etc

Now that the specified task is performed by the computer, it must let us know with an Q.7. Write down the input devices are the answers to the problem we gave it for solution. This is accomplished through suits. Ans.

Ans. Input and output devices A wider variety of input an output device. The results can be displayed, printed or stored in some other form. The results can be displayed, printed or stored in some other form. The results can be displayed, printed or stored in some other form. obtained after solving the problem are generally known as output from the computer

The description of the task to be performed, data to be operated up on, the outpresults can all be stored in Mass Storage Devices for further use, whenever needed.

Q.6 Write down the classified in the information of computer? Information flow within a Computer:

The information that flows within a computer can be classified as

1. Programs and Data

2. Control Information

Programs and Data:

A program is what we have referred to earlier as description - of the task to bhe performed by a computer. Data refers to a set of values assumed by the variables in the program. For example, if we write a program to solve a quadratic equation $ax^2 + bx + c = 0$ then the particular set of values of a, b and c form the data for this program. Thus, if on desires to solve a particular quadratic equation then he needs to feed in both program and the data for that particular equation.

Program and data enter the computer through an input device and get stored in the memory. The data which come in through input device are termed as input data and the one which is communicated to the user through on output device is known as output data or simply output from the computer.

Whenever any arithmetic operation is to be performed on the input data, it is to be transformed from memory to ALU. The arithmetic operation is performed in the ALU and the result is again transferred to the memory. The same is then presented to the user through

Control information

Control information:
There is need to control the flow of instructions and appropriate data from memory to CPU. This requires various devices within a computer to behave in a controlled manner. This is accomplished by the control unit in CPU. The control unit controls various devices in the computer by sending them information in the form of control signals. It can also ascertain the present status of the devices by getting status signals from the devices. For example, the control unit has to ascertain whether the output device is ready before signaling it to carry out

Computer Science and Agriculture Statistics

other the desired work (say printing etc). The control unit controls these devices in accordance w

vhat Q.7. Write down the input devices ?

A wider variety of input and output devices are used for communication with the computer. We will describe some commonly used input and Output devices.

Keyboard is the most commonly used input device. A keyboard is used to enter information & instructions in to a computer. It consists of a set of keys similar to that used in a typewriter. It has some special keys like Ctrl, Alt, Esc, return, function keys etc. in addition to those in a typewriter. These keys have special functions. The layout is similar to that of a typewriter. A computer keyboard combines a typewriter keyboard with a numeric keypad.

A mouse controls a pointer that is displayed on the monitor. The pointers usually appear in the shape of an arrow. It frequently, however, changes shape depending on the application. The standard mouse has a ball on the bottom and is attached with a cord to the system unit

Joysticks:

The joysticks are the most popular input device for computer games.

Touch screen:

A touch screen is a particular kind of monitor screen covered with a plastic layer.

Alight pen is a light sensitive pen like device. light pens are used by engineers.

Digitizer:

A Digitizer is a device that can be used to trace or copy a drawing or photograph.

Digital camera:

Digital camera are similar to traditional camera except that images are recorded digitally on a disk or in the cameras memory rather than the film.

unlike traditional video cameras, digital video cameras record motion digitally on a disk or in the cameras memory.

a) Scanning Devices:

Direct-entry scanning device record images of text, drawing, or special symbols, The images are converted to digital data that can be processed by a computer or displayed on a monitor Scanning device include, Image scanner, Flat bed scanner, Fax machine, Bar-code readers

Computer Science and Agriculture Statistics form until output devices make it people readable, the output devices we shall describe for microcomputers are monitor, printers, plotters, and voice output, Q.8 . Write down the output devices? Woice input devices convert a persons speech in to a digital code. By far the mosted widely used voice – input device is the microphone. This input device when combine ost c)_Voice - Input Devices to be used for desktop systems as well. Once used exclusively for portable computers. Flat-panel monitors are now starting Flat -panel monitors or liquid crystal display (LCD) are much thinner than CRT's. the desk-top. The primary advantages are low cost and excellent resolution Flat - panel monitors: Tubes (CRT). These monitors are typically placed directly on the system unit or on The most common type of monitor for the office and the home is the Cathode - Ray Cathode - Ray Tubes : four most common today are SVGA, XGA, SXGA and UXGA A monitor's clarity is indicated by its resolution, which is measured in pixels. More the To indicate a monitors resolution capabilities, several standards have evolved. The require a higher resolution (more pixels). pixels, the better the clarity of the image. For a given level of clarity, larger monitors its viewing area. Common size is 15, 17, 19 and 21 inches. of monitors are size and clarity. A monitors size is indicated by the diagonal length of The most frequently used output device is the monitor. Two important characteristics others are portable. Monitor standards indicate screen quality. Some monitors are used on the desktop; Output devices convert machine-readable information in to people readable form. le Data that is input to and then processed by the computer remains in machine readable or with a sound card and appropriate software forms a voice recognition system. mostes Character and mark recognition devices Direct speech, continuous speech etc. voice recognition system must be "trained" to the particular users voice. They include character recognition (MICR), Optical-character recognition (OCR), optical-material There are three kind of scanning devices, formerly used only with mainframes naink found in connection with the more powerful microcomputers. They are Magnetic-inark (.528 91-4011=1121 Computer Science and Agriculture Statistics Ink-jet Printer Laser Thermal Voice -Output Devices: Plotters: confirm purchases foreign language. It is also used in many supermarkets at the checkout counter to output is used as a reinforcement tool for learning, such as to help students study a unit. The sound card is used to capture as well as play back recorded sounds. Voice speakers and head-phones. These devices are connected to a sound card in the system prerecorded vocalized sounds. The most widely used voice — output devices are stereo Voice - output devices make sounds that resemble human speech but actually are Voice -output device vocalize prerecorded sounds multicolor documents and also documents that are larger than most printers can drawings, and even three - dimensional illustrations. Plotters can produce high-quality Plotters are special purpose output devices for producing bar charts, maps, architectura and direct imaging plotter handle. There are four types of plotters: Pen plotter, ink-jet plotter, electrostatic plotter Plotters are special purpose drawing devices chain printer. There are several other types of printers. Two are the dot-matrix printer and the output on paper- whether by a printer or by a plotter- is called hard copy. Three popular kind of printers used with microcomputers are ink-jet, laser, and thermal The images output on a monitor are often referred to as soft copy. Information There are three types of printers; ink-jet, laser, thermal heatelements on special paper sprays drops of ink on paper Very high quality; uses photocopying process Very high quality uses High color quality; inexpensive; Characteristics Art and design work documents. Desktop publishing, external advertising pieces Internal and external communications Typical use

Q.10 Write down the units of memory? storage unit of a computer system is classified on the basis of the following criteria: Ans. Memory or storage capacity is one of the important components of a computer, Any Q.9 What is memory of computer & write the types of storage unit of computer? requires 8 bits or 1 byte. This is called the "word length" of the storage unit. Hence the is storage capacity of the computer is measured in the number of words it can store and is Thus the basic unit of memory is a bit (binary digit - 0,1). To store a character, a computer he expressed in terms of bytes. Computer Science and Agriculture Statistics form. A- 65 Z - 90 and a - 97 z - 121Storage capacity: 1. Access time: Cost per bit of storage Units of memory: By using these codes the alphabets can be converted to digital & hence to Binary The different units of measurement are The computer stores a character in the storage cells with binary (0,1) mechanism. This code has given alphabets like some numbers which can be converted to Binary ASCII - American Standard Code for Information Interchange in response to program instructions. It is the amount of data that can be stored in the storage unit This is the time required to locate and retrieve stored data from the storage unit 8 国版 = 1 Byte 210 (or)1024 KB = 1 Mega Byte (MB) 210 (or) 1024 Bytes = 1 Kilo Byte (KB 210 (or)1024 MB = 1 Giga Byte (GB) Memory of The Computer CHAPTER 4 er Any ? Computer Science and Agriculture Statistics B Q.11. Write down the types of Memory? (1) RAM: types: Random Access Memory (RAM) and Read- Only Memory (ROM) CPU for reading or storing information. Primary memory is further classified into two instantly and correctly whenever desired. This memory can be quickly accessed by the It is the main area in a computer where the data is stored. The stored data can be recalled 5.25 and 3.5 inches and these could be either low density or high-density lioppies writing/deleting the information from the disk. There is a hole in the centre through Floppy Disk: It is also referred as —Diskette: and is made of flexible Vinyl material which the spindle of drive unit rotates the disk. The disks are available in two sizes of It has a small hole on one side called "Right protect notch", Which protects accidental memory) storage. Some of the devices of secondary storages are Floppy Disk, Hard Data are stored in secondary storage in the same binary codes as in the main (primary store large volume of data on a permanent basis which can be transferred to the The primary memory which is faster (and hence expensive) is generally not sufficient for large storage of data. As a result, additional memory, called the "auxiliary" or Disk, CD-ROM, DVD and Flash drive. primary memory whenever required for processing. Secondary memory: secondary memory, is used. It is also referred as "backup storage" as it is used to power supply. i.e it is non-volatile memory. some basic input - output instructions put by the manufacturer to operate the computer. written or changed on to ROM. ROM is the "built-in" memory of a computer. It stores the power to the computer is switched off. i.e it is volatile memory. temporary, till the time the computer is running. It disappears from RAM as soon as computer, its programs and the data. The CPU can directly access the data from The storage of data and instructions in ROM is permanent. It does not depend on the RAM almost immediately. However, the storage of data and instructions in RAM is and written onto it. RAM is a place in a computer that holds instructions for the Primary Memory: Primary memory is also called internal memory and is an important part of a computer 2. Secondary Memory (External storage) A computer memory is of two types Types of Memory Primary Memory (Internal storage) It is called Read-only memory as information can only be read from and not RAM is also known as read/write memory as information can be read from (531)

Storage capacity of floppies are measured in kilobytes (KB) and megabytes (MB). details about the storage capacities of the floppies are presented below. Floppy Disk Storage Capacity Size (Diameter) Low Density 360 KB 5.25 inches High Density 1.2 MB 5.25 inches High Density 1.44 MB 3.5 inches Extended 2.8 MB 3.5 inches 2. Hard Disk Hard Disk:

The hard disk can hold more information than the floppy disk and the retrieval sk information from hard disk is faster when compared to floppies or tapes. A hard disk is fixed inside the CPU and its capacity ranges from 20 MB onwards. The hard dish is made up of a collection of discs (one below the other) known as platters on which is made up of a conscious planters are coated with magnetic material. It is less sensitive the data is recorded. These platters are coated with magnetic material. It is less sensitive to external environmental disorders and hence the storage in hard disk is safe. 80 small hard disk might be as much as 25 times larger than a floppy disk. Storage Capacity of hard disks varies from 20 MB to several Gega bytes like 80GB, $\overline{160GB}$ 3. CD-ROM CD-ROM stands for Compact Disk-Read Only Memory. It is used to store a wide variety of information. Its main advantage is that it is portable and can hold a larger to the compact of the amount of data The storage capacity of most CD-ROMs is approximately 650 MB or CD-ROMs have the following variations: CD-R(Compact disc Recordable): Data can be written onto it just once. The stored data can be read. Data once written onto it cannot be erased. CD-RW(Compact disc Rewritable): It is also called erasable CD. Data once written onto it can be erased to write or record new information many times. To use a CD-ROM, a device called CD drive is needed, 4. DVD DVD stands for Digital Versatile Disc. It is similar to a CD-ROM, except that it can store larger amounts of data. The storage capacity of a DVD is at least 4.7MBi DVDs that can store up to 17GBs are also available. Because of their capacity, DVDs are generally used to store a very large multimedia presentations and movies that combine high quality sound and graphics. 5. Flash Drive: It is a small, portable device that can be used to store, access and transfer data. Due to its small size, it is commonly called Pen drive. It is also called USB drive. We can read, write, copy, delete, and move data from computer to pen drive or pen drive to

Computer Science and Agriculture Statistics

computer It comes in various storage capacities of 2GB, 4GB, 8GB etc. It is populated because 533 it is easy to use and small enough to be carried in a pocket. This deviplugged into the USB port of the computer and the computer automatically detects this device.

CHAPTER 5

Computers Hardware

Q[12] Write down the types of computers? (1030) Fical to not correct.

Computers have been classified in to two types, namely special purpose computers and general purpose computers, according to their use. One may also classify them as Analogue and Digital computers according to their basic engineering design. Modern are all Digital computers.

General purpose computers:

They are designed to meet the needs of many different applications like simulations, solving mathematical equations, payroll, personal database, word processing and many more similar applications. These computers are broadly categorized as Micro Computers, Mini Computers, Mainframe Computers and Super Computers.

There are Four types of computers.

Supercomputers:

The most powerful type of computer is the Supercomputer. These machines are special, high capacity computers used by very large organizations. For example, NASA uses supercomputers to track and control space explorations.

2. Mainframe computers : Diff

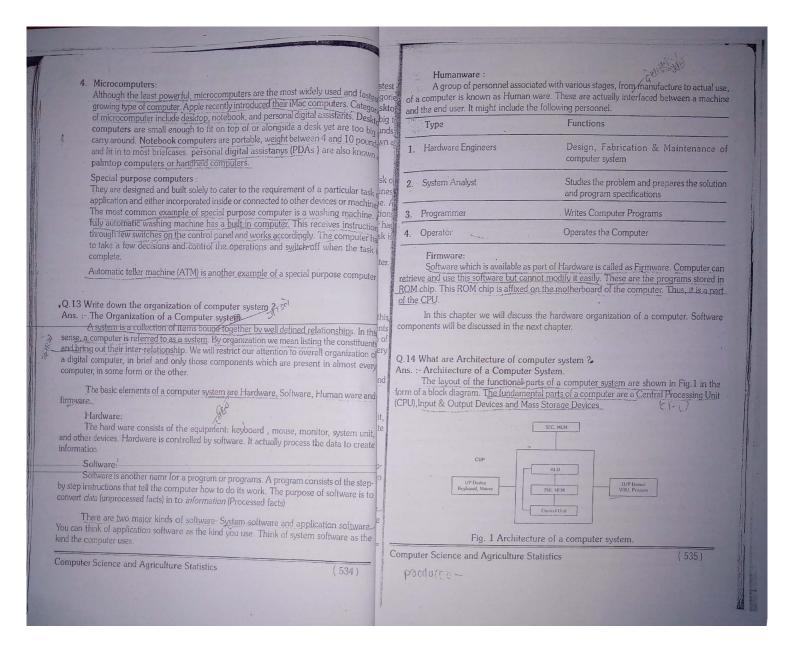
These large computers occupy specially wired, air conditioned rooms. Although notnearly as powerful as supercomputers, Mainframe computers are capable of great processing speeds and data storage. For example, insurance companies use mainframes to process information about millions of policyholders.

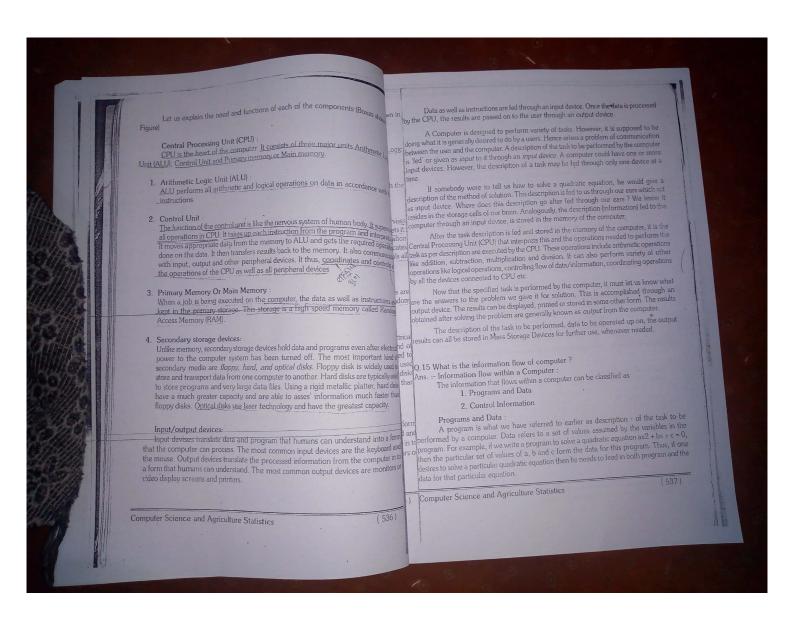
3. Minicomputers:

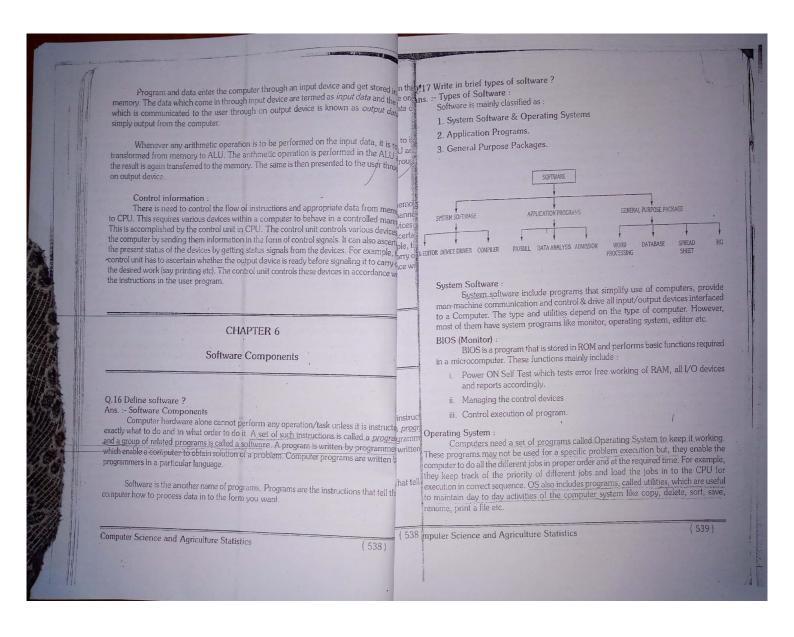
Also known as midrange computers, minicomputers are *desk-sized* machines. Medium sized companies or departments of large companies typically use them for specific purpose. For example Production departments use minicomputers to monitor certain manufacturing processes and assembly-line operations.

Computer Science and Agriculture Statistics

(533







5. Browser Navigation the intern ate ,explore, and find information Computer Science and Agriculture Statistics (540)	4. Presentation graphics people Communicate a message or persuade other people		Sr. No. Type Discretion	Application Software might be described as 'end user' software. Application Software performs useful work on general-purpose tasks such as word processing and data analysis. There are certain general purpose programs or basic applications. These programs are widely used in nearly all career areas.	a specific job to meet the requirements of a part by billing in an organization, statistical data and ion programs. These are generally written in differ then compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate them in an execution of the compiled to translate the compiled to translate the compiled to the	nost powerful and important software in a compute SW forms a complete computer systems. ating systems are WS iii UNIX/Linux	File management & Software management Memory Management.	dware, Software from improper use.	Control over hardware resources such as Input/output devices, Secondary star Devices etc.	If the Operating System include: g&Loading of programs or subprograms and continue the job progr
computers. It spreads from computer to computer thousands of viruses in circulation now a day. Computer Science and Agriculture Statistics (541)		CHAPTER 7 Computer viruses	vendor.	sis.	The user do not need to remember what to do next. <u>Package programs are availables</u> applications which are common to many users. Some examples of popular software packages is any WordStar, MS-Word, Word Prefect for word processing; dBase, FoxPro for database ren management; LOTUS, MS-EXCEL for spreadsheets etc. Advantages of these packages include 1. The user himself need not write programs in HILL 11-12		General purpose pa	8. Web publisher Create interactive multimedia web page	toras 7. Multimedia Integrate video, music, voice, and graphics to create interactive presentations	cessil 6 Information managers lists Maintain electronic calendars, address books, and to-do

.19 Write down the viruses symptom & precaution? Ans. :- Symptoms;

- 1. Program execution takes longer time
- 2. Any abnormal screen display.
- 3. Disk drive indicator is put on at unexpected times.
- 4. Any abnormal massage.
- 5. Decrease the size of RAM (Memory, as indicated by scandisk).
- 6. Increase in size of executable files.
- 7. excessive increases in disk access time
- 8. Change in volume label of disk.
- 9. Unexpected loss of data or information.

Precautions:

- 1. Do not use unknown floppies
- 2. Always use 'write protect' on boot floppy
- 3. Never use pirated software
- 4. Check hard disc and floppies periodically using vaccines.
- 5. Establish a sound backup policy.

Q. 20 Write down the properties of Virus? Ans. Properties of Virus:

- It can duplicate and spread itself from computer to computer, usually without
- Viruses often hide in a system area or program file;
- They may do harm to a system and its data, intentionally or unintentionally.

Some of the well known viruses are Pakistan, India, Win32, Joshi, Die_Hard-2, Jerusalem, Generic, Brain, May_5th Gumnam, World peace etc.

Q.21 Write short notes-on-Cleaning?

Cleaning :

A antivirus protram or Virus scanner can remove many known viruses from a disk without damaging the infected files or system areas; this is called cleaning a virus. However some viruses damage files or system areas when they invade them, and of course, the scanner can't undo the damage. Such files need to be deleted; you usually can restore them from a backup or reinstall them from their original program disks. If you want maximum protection,

Computer Science and Agriculture Statistics

ou should scan memory and proaram files, time you boot. Viruses often travel in the boot out stious of disks. When you insert a disk that comes from another system, scan disk for virus as oon as you insert it into the disk drive.

Q.22. Write down the function of Computer Virus?

Ans. Function of Computer Virus:

First of all computer viruses do not effect human beings, so do not be afraid of computer viruses. They are simply programs similar to the ones you will be creating programs and puter visuses do not affect the hardware of a computer and it worst comes to worst, all you have to do is switch off the computer and that is the end of the virus.

Q.23. WHY PEOPLE ARE SCARED OF VIRUS?

Ans. The reason is that many of these viruses are destructive. Their target is other programs and data on your disk one virus can and do "Corrupt" data and programs. Many days of hard work can be wiped out by a virus. But this can happen only to people who ignore the menace. A few precautionary measures can be ..taken to prevent damage. We will be looking at the precautions you can take later.

Q. 24. Write down the types of Viruses?

Ans. TYPES OF VIRUSES

- 1. BOOT TYPE VIRUS
- 2. GENERIC VIRUS

1. Boot Type Virus

These programs are placed in the boot sector of a pen drive or disks. The virus picks the original boot program and places it somewhere else on the disks. When the machine is booted with this disk, the virus is first loaded in memory. The virus code takes control of the machine & then loads the original boot record to continue the booting process. All this happens very fast so that a user would not be able to notice the entry of the virus. This virus can only get into the machine at the time of booting. You can avoid these viruses by never starting a computer with a pen drive in USB port. If you are using a PC then boot machine with a known virus-free disk

2. GENERIC VIRUS

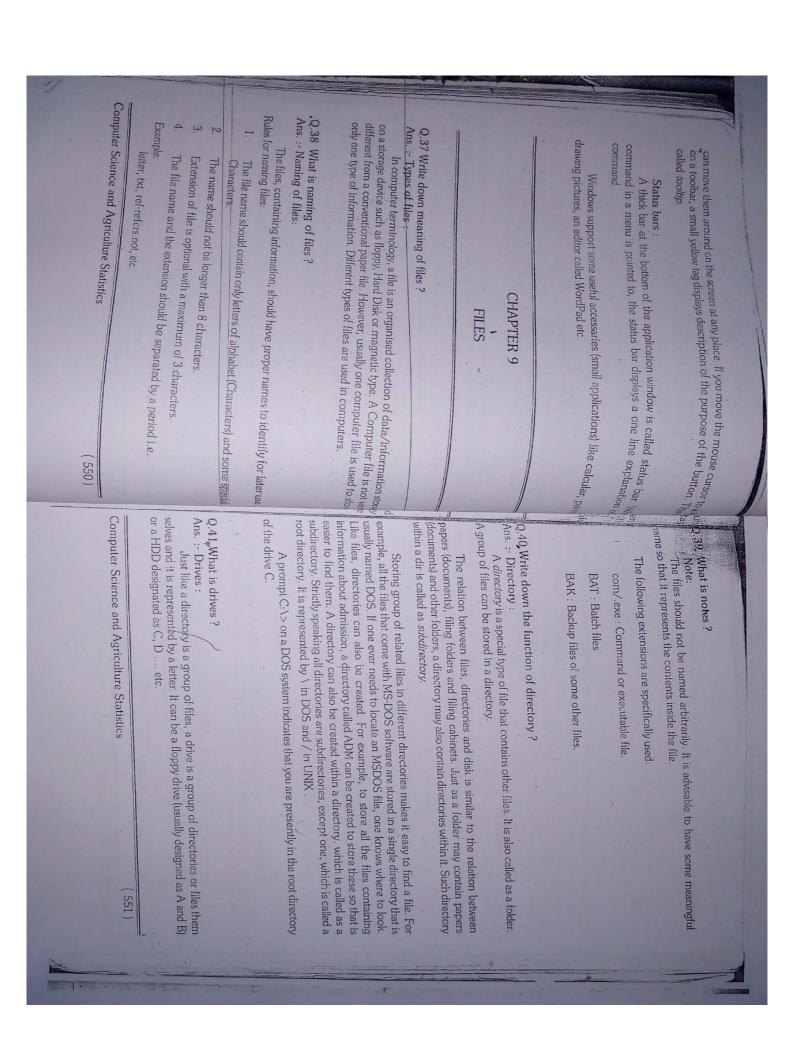
These file viruses uses a different technique. The virus code is attached to the end of an executable program. The virus also changes the program slightly so that when you try to run this program, the virus program is executed first. It then lodges itself in the memory and takes control, the program is then allowed to run as usual. Thus the user does not notice that something is wrong. There is a simple way to know whether there is a virus in the program.

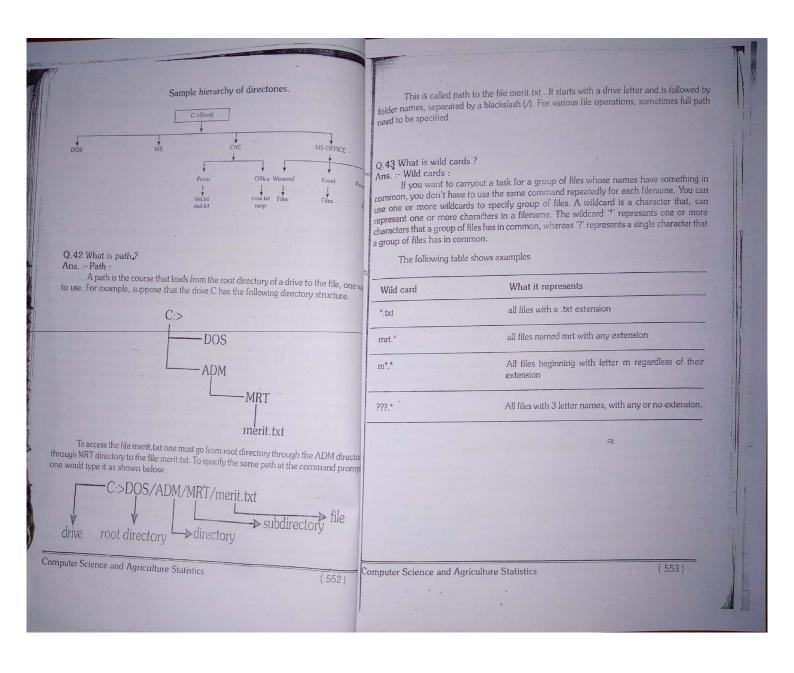
Computer Science and Agriculture Statistics t access to all the potential malicious process and files, creating a potential avenue of attack software itself usually runs at the highly trusted kernel level of the Operating System to allow fine-tuned to minimize misidentifying harmless software as malicious (false positive). Antique lead to a security breach. If the antivirus software employs heuristic detection, it must considering themselves to be totally protected, and may have problems understanding the prompts and decisions that antivirus software presents them with. An incorrect decision inexperienced-users can be fulled into a false sense of "security when using the compute ing for known patterns of data within executable code. However, it is possible for a computer modified to change its signature without affecting functionality. to be infected with new malware for which no signature is yet known; and malware is all niques, is commonly offered in products and services of antivirus software companies. adware and spyware. Computer security, including protection from social engineering other types of malware, such as malicious Browser Helper Objects (BHOs), browser hijob ransomware, keyloggers, backdoors, rootkits, trojan horses, worms, malicious dialers, faut remove malicious <u>computer viruses</u>. Most software described as antivirus also works aga Q.25. Write down Antivirus or Vaccines? replication consumes system, resources, slowing or halting other tasks whereas viruses almost always corrupt or modify files on a targeted computer. Work unvisible to the user. It is common for worms to be noticed only when their uncon does not alter files but resides in according failures on the target computer to access like network to spread itself, relying on security failures on the target computer to access lost one atlach itself to an existing program. Worms the computer virus, it does not need to atlach itself to an existing program. Worms the a computer virus, it does not have to the network, even if only by consuming bank is always cause at least some harm to the network, even if only by consuming bank is always cause at least some harm to the network, even if only by consuming bank is always cause at least some harm to the network, even if only by consuming bank is always cause at least some harm to the network, even if only by consuming bank is always cause at least some harm to the network, even if only by consuming bank is always cause at least some harm to the network, even if only by consuming bank is always cause at least some harm to the network even if only by consuming bank is always cause at least some harm to the network even if only by consuming bank is always cause at least some harm to the network even if only by consuming bank is always cause at least some harm to the network even if only by consuming bank is always cause at least some harm to the network even in the networ Ans. WORMS

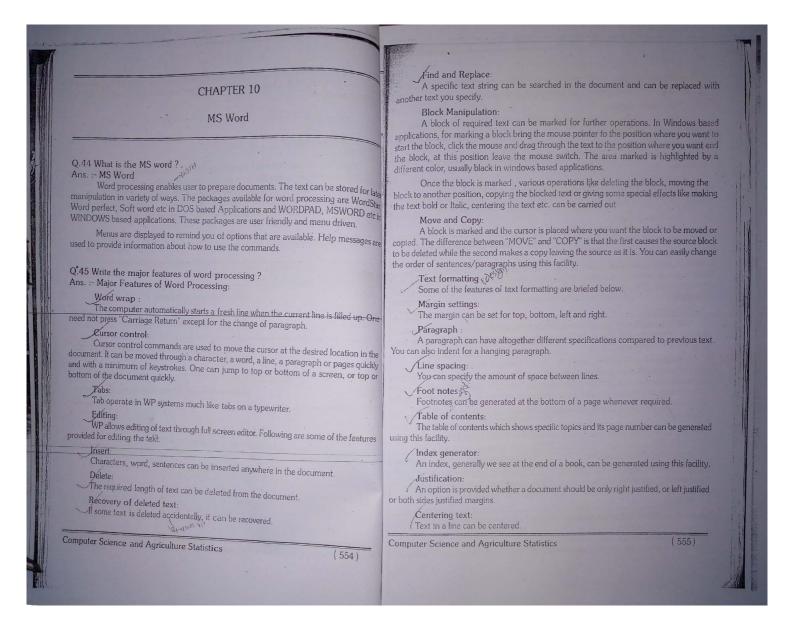
In a computer, a worm is a self-replicating virus or malware computer progenited does not after files but resides in active memory and duplicates itself. Often, it uses a complike Q. 24. What is computer Worms programs that have gone through the machines may have a virus on Many people copy it & chances are that one of the machines may have a virus on of new programs that you have never seem of new programs that you have never seem of new programs that you have never seem of new programs size is correct & there is no virus attached to it already? The best policy is program size is correct & there is no virus attached to it already? The best policy is program size is correct & there is no virus attached to it already? The best policy is program size is correct & there is no virus attached to it already? The best policy is program size is correct & there is no virus attached to it already? The best policy is program size is correct & there is no virus attached to it already? The best policy is program size is correct & there is no virus attached to it already? The best policy is program size is correct & there is no virus attached to it already? The best policy is program size is correct & there is no virus attached to it already? The best policy is program size is correct & there is no virus attached to it already? The best policy is program size is correct & there is no virus attached to it already? and note the sizes of at least the programs that you have never seen or used before. How do you know there of new programs that you have never seen to it already? The best policy was a program that you have never seen or used before. How do you know there is no virus attached to it already? The best policy was not never programs. program size is correct & there is no program size is correct & there is no programs that have gone through many computers like games. As games are ven increases. It is difficult to know the size of europeans that are used very commonly. You should harely and note the sizes of at least the programs that are used before. How do you know here and note the sizes of at least the programs are or used before. How do you know here Antivirus software has some drawbacks. It can impair a computer's performant Note the size of program. When a virus attaches itself to the program the size of the pgram. When a virus attaches itself to the program you are using him pgram. When a virus attaches itself to the program the size of the pgram is a virus attaches. A variety of strategies are typically employed. Signature-based detection involves same Antivirus (Vaccines) software is computer software used to prevent, deten Antivirus (Vaccines) an operating system that are automatic and weed (544 Computer Science and Agriculture Statistics systems with two interfaces: the interface between user and the applications and the interface between application and computer devices and liles between the user and MSDOS. But Windows 95 and later versions are independent operating Q.27 What is graphic user interfare? Ans. :- Graphic User Interface (GUI) WWW.WINDOWS 2.0 Q.26. Enlist the various versions of windows? below are introduced Ans. :- Microsoft introduced window in 1987. Since then various versions of windows listed Avira, etc. All the earlier versions except WINDOWS 95 are Graphic User Interface (GUI Windows 2007 Windows 2003 Windows 98 Windows 95 Windows 3.11 WINDOWS for Workgroups WINDOWS NT WINDOWS 3.1 WINDOWS 3.0 WINDOWS 2.03 Examples of antivirus softwares are Norton, Quick Heal Mcaffee Net Protector, AVG, Operating System: Windows CHAPTER 8 2007 2003 1998 1995 1994 1993 May 1990 April 1992 April 1992 Jan. 1988 Oct. 1987 (545)

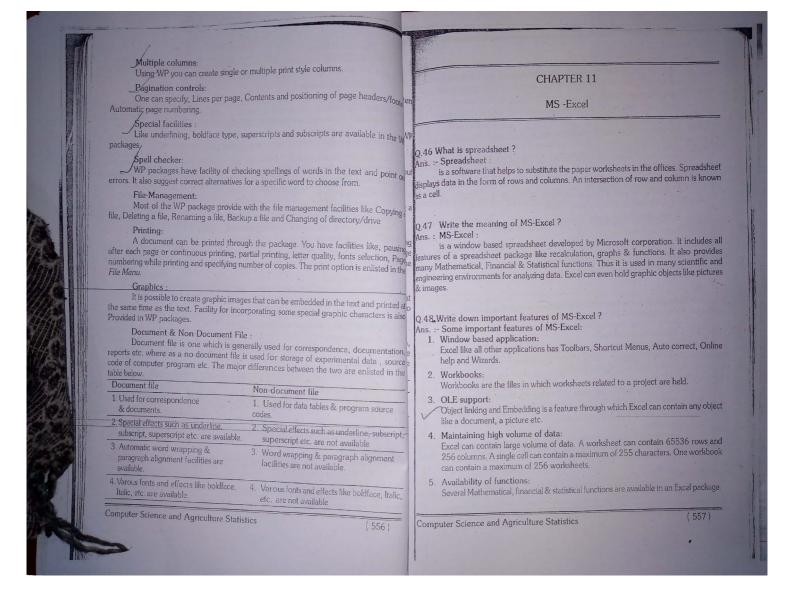
Computer Science and Agriculture Statistics Ans. Basic mouse operation? arrow called pointer is displayed on the screen. It has three buttons on the top of it which used for various actions. Some basic mouse operations are listed below. cascaded menus containing commands which can be selected applications immediately e.g. Help, shutdown etc. Selections with the small arrownead on kinds of selections: commands, cascaded menus and dialogue box. Command selection pen Q.30 What is start menu? of the day indicator at the right end of the task bar. contains three elements. The start menu button, the button for open windows and the Q.29 What is task bar? are briefed below The *rooms* are small proving applications, devices, etc. It has a text *label* which describes the objects. Parts of a de-Q.28 What is desktop? As soon as the computer with some called *icons*, a *taskbar* and a *start menu* along Ans. :- Desktop Move pointer on the screen until it rests on the item of choice. Click left button twice rapidly with a very small time gap between successive clicks. Double click Press and release the left button Mouse is frequently used for windows operations, when a mouse is in operation are The start button when elicked opens the start menu. The start menu contains the tun The long horizontal bar at the bottom of the deskiop is the taskbar. The bas The *icons* are small pictures on the screen which represent objects. documents spelecting an object is pointing to it are second to be chosen. The command associated with an also darks are small pictures on the screen which describes the objects. Parts of a deal sktor selected object is highlighted and it is ready to be chosen. The command associated with an also darks are small pictures on the screen which describes the objects. Parts of a deal sktor selected object is highlighted and it is ready to be chosen. The command associated with an also darks are small pictures on the screen which represent objects. Parts of a deal sktor selected object is highlighted and it is ready to be chosen. The command associated with an also darks are small pictures on the screen which represent objects. - Desktop: Move the mouse pointer with Windows OS is booted, a screen is displayed containing utton and hold down while the mouse cursor is moved to the desired destination (drag) and As soon as the computer with Windows OS is booted, a screen is displayed containing utton and hold down while the mouse cursor is moved to the desired destination (drag) and As soon as the computer with Windows OS is booted, a screen is displayed containing utton and hold down while the mouse cursor is moved to the desired destination (drag) and a screen is displayed containing utton and hold down while the mouse cursor is moved to the desired destination (drag) and a screen is displayed containing utton and hold down while the mouse cursor is moved to the desired destination (drag) and a screen is displayed containing utton and hold down while the mouse cursor is moved to the desired destination (drag) and a screen is displayed containing utton and hold down while the mouse cursor is moved to the desired destination (drag) and a screen is displayed containing utton and hold down while the mouse cursor is moved to the desired destination (drag) and a screen is displayed containing utton and hold down while the mouse cursor is moved to the desired destination (drag) and the screen is displayed containing utton and the screen (546) kbar time aree Ans. to application. Clicking title of a menu in the menu bar opens the particular menu of commands Computer Science and Agriculture Statistics cursor changes window size. corners, the mouse cursor changes to arrow cursor with points at both ends. Dragging that for manipulating the Window. i.e. moving, resizing, maximize, minimize etc mouse cursor to this bar and drag the mouse, you move the window on the screen file is displayed in this bar. It is also the means for moving the window - when you point the Q.33. Write in brief parts of windows? communicates with the user. then release the mouse button to drop the object there. owns the document. Dialog boxes are interactive windows with which the application program window is a subordinate window to the program window - also called parent window – that desktop, a running program, or a document or a dialog box in a program. A document 2.32 Write down working with windows? shoose an object by first selecting it and then pressing 'enter' key bject can be activated by double clicking. It is also called choosing an object. One can also A window is a rectangular frame on the screen which can represent a folder on the Work space : It is a horizontal bar at the top of the window. The title of the running application or Parts of a window: Working with Windows: It contain the titles of pull down menus. The titles in the bar may very from application Each window has a control menu, at the left hand top corner, which contain commands The frame surrounds the window, when you point the mouse to one of the edges or Workspace is the blank portion of a window within it Menu bar: Control Menu: Move the mouse pointer into the icon of the object to be dragged. Press left mouse Title Bar Some basic terms used in windows operations are briefed below Drag and drop

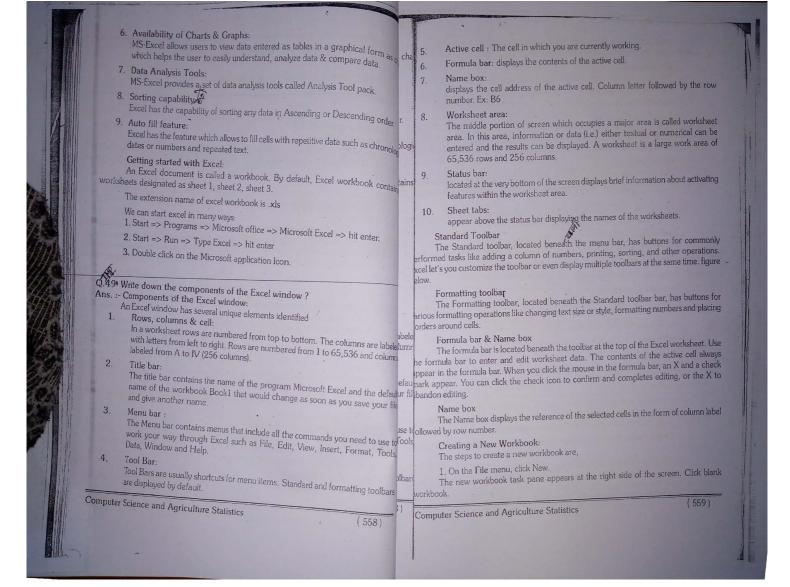
Computer Science and Agriculture Statistics configuration of network, adding new hardware to the system etc. by using this utility. the recycle bin. If needed, a file in the recycle bin can be restored back or deleted permanently shared printers in the computer network. drive windows and drag and drop technique. access to printers etc/ To see the contents of a drive the specific icon be double clicked to the application. Many applications display menu bars with different labels depending on the context activate it. All file management work can be done using this application by applications display menu bars with different labels depending on the context accounts of the menus, they all work the activate it. All file management work can be done using this application by opening respecti the network support. These icons can be activated to open disk derives, control pameld the heapplication. Many applications have help menu to provide access to windows help access to printers etc/ To see the contents of a drive the specific icon hardwill. I have application. Many applications have help menu to provide access to windows help access to printers etc/. 6.3.4. The contents of this window depend on the devices connected to the computer argument has commands to control the appearance of visible items like toolbars, format bar etc. the network support. These icons can be activated to onen disk derivace control. Q.34 Write down utilities of computer? are, provided by Windows 95 and later versions. These are briefed below. Clicking the close button will close the window Control panel utility facilitates setting up of the hardware components in the system maximise buttons respectively. These are located at the right hand top corner of the wind Control Panel: All deleted files are put in recycle bin. When the icon is activated, it lists contents of http Recycle Bin: enable scrolling the contents in the workspace horizontally and vertically. Scroll Bars: Generally, there are two scroll bars to a window. A vertical scroll bar at the right at his 35, edge of the window and a horizontal scroll bar at the bottom of the window. These scoll oil bins. When this icon is activated, it opens a window that displays other computers and Network neighbourhood: Activating my computer icon on the desktop, you see a window as shown in figormands for edit operations such as copy, were recommended and also a search and replace command. View The contents of this window depend on the devices connected to the comment and also a search and replace command bar etc. My computer: Various utility programs like my computer, network neighborhood, recycle bin et This button is located at the right hand top corner of the window, near restore but Close button: The window size can be restored to previous size by clicking restore button The size of a window can be minimised or maximised by clicking the minimise of a window can be minimised or maximised by clicking the minimise. Restore Button: Minimise and maximise buttons: There are a number of buttons on the window as briefed below (548)utto ndo et Imenu bar. Each button corresponds to a menu command. Clicking a button is same as choosing the corresponding command from the menu. Toolbars are often floating i.e. you Computer Science and Agriculture Statistics cheek boxes, text boxes, lists etc. computer and the user. These dialog boxes contain various objects like command button the required information and click the OK button. These are for interaction between the of the application. Regardless of the nature and contents of the menus, they all work the same way as far as opening a menu and selecting a command from the menu is concerned Commands that have ellipses (....) following the label, open dialog boxes. One has to key in commands for edit operations such as copy, cut, paste, etc. It also includes commands for pen, close, save, print etc. alongwith a command to exit the application. Edit menu contain nenu pops down. ommon in every application. Any menu can be opened by clicking the label, the concerned woked either by activating an icon or from the start menu. Let us describe some common rocessing, data base management, statistical data analysis etc. These applications can be oplication displays labels of the menus. Normally file, edit, view and help labels are most roperties like menus, tool bars, dialog boxes etc. that most applications share. ns. :- Working with Applications : clang start button and again clicking document menu from it. .36 What is working with application computer? 35. What is working with documents? list of documents on a special documents menu. The document menu can be opened by d dropping. This practice allows one to organise ones work properly. Windows 95 maintains new folder can be created whenever required through the utility My computer and a newly gated document can be stored in this folder. One can also put folders in folders by dragging A tool bar is a set of buttons usually positioned immediately below the application If the command new or save as is activated from file menu a dialog box is opened Applications in windows environment use menus extensively. The menu bar in every The file menu contains commands for various operations related with files i.e. to Working with Documents There may be a number of applications on a computer for various purposes like word Documents are always saved in files and stored in an appropriate folder or a directory

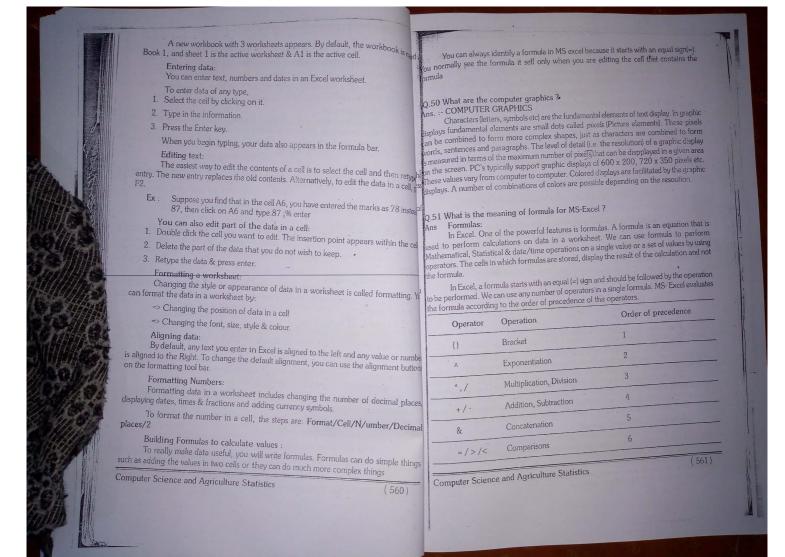


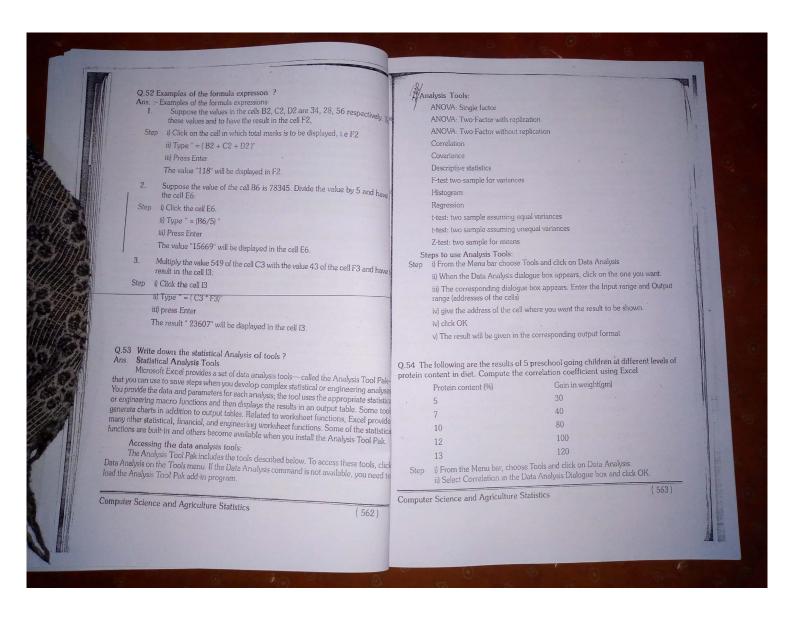












		,		Significance			
	Dſ	SS	MS	F	F		
Regression	1	399.7838	399.7838	73.96	0.003305		
Residual	3	16.21622	5.405405				
Total	4	416					

	Star	ndard			Lower	Upper	Lower	Upper
	Coefficient	Error	t Stat	P-Value	95%	. 95%	95%	95%
Intercept	13.89189	6.836289	2.032081	0.135073	-7.86423	35.64801	-7.86423	35.64801
(X)	2.324324	0.27027	8.6	0.003305	1.464204	3.184445	1.464204	3.184445

CHAPTER 12

MS-Power Point

Q.55 What is power point?

Ans. Presentation graphics software helps you create professional and exciting presentations. Microsoft, Power Point is the most widely used presentation graphics programs.

Q.56. Write meaning of presentation, slides, Handouts ?

Ans. Presentations:

A power point presentation is a collection of slides, handouts, speaker's notes and your outline, all in one file. As you create slides, you are creating a presentation.

Slides:

Slides are individual pages of your presentation. Slides can have titles, text, graph, drawn objects, shapes, clip art, visual created with other applications.

Computer Science and Agriculture Statistics

(565)

 $\mbox{{\it Handouts:}}$ To support your presentation, you have the option of providing handouts f_{0r}

Q.57. Write down the major elements in power point?

The power Point Window

The major elements in power point window as in any other application Windows

The States Bar

At the bottom of the window to display Message.

Three shortcut buttons appear on the right side of the status bar : New Slide, lay and Template. Clicking the New Slide button presents the New Slide dialog box and ad slide to your presentation immediately following the current slide using the slide layout choose, clicking the Layout button lets you change the layout of the current slide. Final clicking the Template button allows you to apply or change. The template for your presentation

The scroll bar:

There's a vertical scroll bar, which has an elevator as well as double arrow buttons w can use to move from slide to slide.

The toolbars:

For quick access to commonly used commands and tools. The Standard and formatting toolbars are displayed just below the menu bar.

Views buttons :

The views buttons are at the bottom left of the power point window. These are th power point views

1. Slide View 2 Slide Sorter View. 3 Notes Pages View 4 Slide Show View

Q.58. Write down steps for creating presentation?

Ans. :- Quick Steps for Creating Presentation:

Step I: Start Power Point: Double-click the power point button on office bar

Step II : Use the Auto content Wizard to create a Presentation:

When power point opens, you see the power point startup dialog box. select the aut content. Wizard option button: The auto content Wizard prompts you to make a tital slid and then leads you through choosing a presentation category.

Step III: Reline your presentation:

Once you finish the first draft of a presentation, next step may include editing the text, changing colors, changing the order of the slides, or changing the look to change you presentations look, you can apply a template or use the pick a look wizard.

Computer Science and Agriculture Statistics

(566)

Add a special effects to your electronic presentation.

You can have the bullet option on the slides appear on at a time. using special effects (called creating build slides) And you can use special transition to move to each slide in a slide show (called adding transitions).

Step IV: Preview Your presentation On - Screen :

Preview your show by clicking the slide show button at the boddemof thr power point

Step V: Save and Print your presentation:

Save presentation using the save command on the file menu. Choose the Print command from the file menu. When you are ready to quit power point, from the file menu, choose the Exit command.

Q.59 Write down adding transition effects to slides?

Ans. :- Adding Transition effects to slides,

Transitions are the visual special effects you see when you go from one slide to the next in an electronic slide show, you have lot of choice available.

Here's how you set up transitions.

To add transitions to your slide show.

- 1. Click the slide sorter button on the lower left side of the document window.
- 2. working in slide sorter view lets you set transitions. for all of your slides without changing views
- 3. From the tools menu, choose Transition.
- 4. The Transition dialog box appears
- 5. In the effect box, select the transitions. You want.
- The transition you select is applied to the picture in the preview box. click the picture to watch the transition again.
- 7. Choose how fast you want the transition to take place by selecting the slw, medium, or fast option button.
- 8. The speed s applied to the picture in the preview box.

The transition is applied to the current slide. The transition icon is added below the slide in slide sorter view to show that you have set a transition for this slide. You can also set slide transition by changing to slide sorter view and then selecting an effect in the transition effects box on the slide sorter toolbar.

Creating build slides for a slide show:

A build slide also called a progressive disclosure slide is one where each build slide also called a progressive disclosure slide is one where each build slide up to the others. Use a build slide up to the others. A build slide also called a progressive the others. Use a build slide when you in the main text appears independently of the others. Use a build slide when you in the main text appears independently of the others. Use a build slide when you in the main text appears independently of the others. in the main text appears independency reveal bullet points one at a time . you set up the way you want each point to appear to appear and whether you want the other points already as reveal bullet points one at a unite: you see up to the other points already on the infrom the left, for instance) and whether you want the other points already on the

CHAPTER 13

MS-Access

Q.60 Write down MS-Access.

Ans. :- The Database is an organized collection of data related to a particular topic purpose. The database serves as a base from which a desired information can be retrieved many meaningful conclusions can be drawn. A database stored electronically has disject advantages over a manually organized system. A database can be maintained in a compe by using a database management system(DBMS).

DBMS is an application that enables to maintain data in a database. Maintaining de involves storing, organizing and retrieving data.

MS-Access is a Relational Database Management System (RDBMS) that is used $^{
m P}$ store and manipulate large amount of information. The extension name of Ms-Access f

To start MS-Access:

- 1. Start => Programs => MS office => Ms-Access => Enter
- 2. Start => Run =>Ms-Access => Enter

Q. 61 Write down the database object?

Ans. An Access Database consists of 7 different Database objects.

Store database data in Rows (records) and columns (fields). Every row represent a Record. Each piece of information in a record is called a Field.

Ex: A table can contain personal information about all the students in a college. Even row containing information about a student represents a record. The records in the student table can include fields such as Admission number, Student name

Computer Science and Agriculture Statistics

used to retrieve information from a database based on specific conditions.

- A Query can be used to extract details about students studying in a particular Ex
- Forms 3.

used as interfaces for users to enter, view and modify data in a Table.

used to present data from tables or Queries in a format of our choice, i.e the printable form of the table or query or form. We cannot make changes to the data in a report. We can format the data in a report.

display shortcuts to data access pages in the database. A data access page displays data stored in a database over the internet.

6.

used to automate frequently performed tasks.

we can create a macro to print a report automatically. Ex:

Modules: 7.

used to perform advanced database operations, such as validating data against complex conditions.

Q.62 What are creating database?

Ans. :- Creating a Database :

A Database can be created by using the database Wizard or by using the Blank Database

- The database Wizard is used to create tables, forms, queries and reports by following a series of steps provided by the wizard.
- The Blank Database command is used to create a blank database. All database objects should be created manually.

Click on File menu =>New => Enter A window appears => give a name to the database

Q.63 What are creating Tables?

Ans. Creating a Table

Open the database in which the table is to be created. The database window appears.

255 characters. Computer Science and Agriculture Statistics (570)	The following list summarizes all the field data types available in MS- Access, their uses and their storage sizes. • Text: used for text or combinations of text and numbers, such as addresses or the that do not require calculations.	Q.64 Write down the data types in MS-Access? Ans.: Working with Database Fields: Microsoft Access database fields are created by entering a field name and a field data Data types in MS-Access.	 Give the field names (Name, roll no., marks etc) Click on close button of the table and save the table with some name To enter details into the table, click on table in the main switch board and double click Enter the details 	I. Create Table by entering data: Click on Table (object) in the main switch board. Click on create table on Datasheet view ??now a window appears ??here we find fields (field1, field2,)	Table wizard Used to create a table through a guide sequence of steps	Create table by entering data Used to create a table by entering values direg in a row and column format Design view Used to assign fields for the new table	Commands in the New Table dialog box Command Purpose	2. under objects, click Tables and then click New on the database window took
Computer	3. click on the close b 4. To enter data into t 5. Now enter the deta		Q.65 Write down create table in design view? II. Create a table in Design view: 1. click on table (object) in the main switch board. 2. Here click on "create table in design view "?Now a window appears??heretype the field names and their data types respectively.	used for data that can be only one or two positive states, On/Off. OLE object: used for OLE objects like pictures, graphs and other binary data. Stores up to 1 GB.	Auto Number: used for unique sequential or random numbers that are automatically inserted when a record is added. Yes /No: Yes /No:	used for dates and times. Stores 8 bytes. • Currency: used for currency values and to prevent rounding off during calculations. Stores 8 bytes.	 Number: used for data to be included in Mathematical calculations, except calculations involving money. Stores 1,2,4 or 8 bytes. Date / Time: 	Memo: Used for lengthy text and numbers, such as notes or descriptions. Stores upto 64,000 characters.

Q.66 Write down primary & foreign keys?

information from the input data. Keys are of two types: primary & foreign. used to maintain the integrity of data. Keys contain unique values that help to fifter redin Primary & Foreign Keys:

Data should be checked for redundancy before it is stored in a database. Residual should be checked for redundancy before it is stored in a database. Residual should be checked for redundancy before it is stored in a database.

Primary key:

Usually this field is sequentially numbered The field in a table that uniquely identifies each record is called the primary

Ex: Admission number field

Foreign key:

the foreign key in the second table. When a primary key of one table appears as a field in another table, the field is all

Q.67 Write down Queries?

Ans. :- Queries :

- By using queries we can view, change and analyze data in different ways. You can use them as the source of records for forms and reports,
- You can bring together data from multiple tables and sort it in a particular order.
- You can perform calculations on groups of records

Q.68 Write down Forms?

- to fit it. The user may have to scroll horizontally or vertically to view the rest of the In a table, number of records are displayed at a time. But, if the table has many field then it may not be possible for a user to view all of them. The screen may be too small
- In forms, the data can be displayed as per the users requirement. The records are Pictures can be added to a form. The display and contents of the form is controlled generally displayed one at a time. The fields can be arranged as the user wants
- In forms there are 3 views.
- i. Design ii. Datasheet & iii. Form view
- You can toggle between these three views using the View Tool The datasheet view shows many records whereas form view displays single record

Computer Science and Agriculture Statistics

(572)

Ans. :- Report: Q.69 Write down Report?

when you take the printout or the Hard copy, it is known as Report. In the database window The report preview shows how the data will appear on taking out the printouts. be viewed either in print preview mode or design mode. Data cannot be edited in the reports the open button is replaced by the preview button, when you click the report tab. Reports can The data shown in a table, Query and forms are meant for displaying it on screen, but

CHAPTER 14

Internet

Q.70 Write down the meaning of Internet?

a huge network of telecommunication links. The internet allows you to access to a whole Ans. :- The internet is a global connection of computers. These computers are connected via method of transmission known as TCP/IP, which stands for Transmission Control Protocol the world. The communication links which inter connect each host computer use a common respurce of data and information stored at different sites (called hosts) and locations around Internet Protocol. Internet connection helps us to:

- Read information on a wide range of topics
- Send or receive E-mail
- Down load useful programs such as virus detectors, file compression, decompression utility etc.
- Share your opinions and your knowledge on a variety of topics through various new
- Chat with other people any where in the world

5 6.

- View interesting video's listen to music or wander through a 3-D world.
- Ans. :- Requirements for connecting to the Internet Q.71 Write down the requirement for connecting to the internet?
- A modern is a peripheral device that allows a computer to connect and communicate with other computers. Modem stands for Modulator Demodulator.

Web Browser:
A browser is a software program that is necessary in order to view web pages on National National Program Mariana Mozilla Firefox, Micro A browser is a software program that the browser is a sof express etc.

c) Telephone line: A telephone line is required to transfer data from one computer to another computer is connected to a modern, which, in turn, connected to a telephone

d) Subscription with Internet service provider (ISP): ISP's are companies that provide access to the internet. We need subscription any ISP to get an Internet connection. Some of the ISPs in India are VSNL, MT Sify, Specrta Net etc.

Q.72 Write in short world wide web (WWW)? Ans. :- World Wide Web (WWW):

It refers to the collection of information accessible on the internet. The web is simi to a library. It consists of millions & millions of pages of text, pictures, sounds and animate on various topics. These pages, called web pages are stored on different computers that connected to the littletnet. The web pages have links between them i.e when we clid ertain word or picture in a page, it will take us to another page. These words or pictures t help to move from one page to another are called hyperlinks) A collection of related v pages is known as a web site. A web site carribe accessed by means of a unique name assign

Internet was initially designed for the transmission of text basing on the protoco mentioned. In order to transmit a graphically designed web page complete with picture embeddlad soutid atid atilination a special language was designed which is referred to Hyper Text Mark tip. Language (HTML). HTML uses special text codes to defined various eletients of a web page. The WWW support a protocol called Hyper Text Transl Protocol (HTTP). All internet servers cannot support HTTP and so the web can be regard as a subset of the larger internet. HTTP provides a method of transmitting a professional servers cannot support HTTP and so the web can be regarded. laid out plage over the text based internet. Uniform Resource Locator: (URL): Each w site has a Unique address commonly relerred to as a URL. A URL specifies the exact location of the web page on the internet.

A typical web address or URL looks as http://www.microsoft.com/catalog navigation.dsp

Computer Science and Agriculture Statistics

Explanation of the example URL

http	Element Explanation
http	Identifies protocol necessary to retrieve the file
Indicates the name of the web site	Indicates the name of the web site
Indicates the name of the web site	Indicates the name of the web site
.com	Indicates the domain type of the web site
/catalog/navigation.asp	Specifies the path of the file stored on the web server's hard disk
, , , , , , , , , , , , , , , , , , , ,	

Q.73 Explain the concepts of Electronic mail (E-mail) & Advantage of E-mail? Ans. :- Electronic mail is a name for non-interactive communication of text, data, image or voice messages between two machines using telecommunication lines. Thus FAX, voicemail, and computer based messaging systems fall within the purview of e-mail.

Unlike the telephone conversation, two individuals at either end of an email connection need not be 'on-line' with each other. E-mail massages are from machine to machine. The message sent is stored in the memory of receiving machine and indication is given by the machine whenever it is put ON.

Any kind of text, information, graphs, voice can be transferred via e-mail systems. In case of voice mail, recorded voice messages take place of documents or letters.

ADVANTAGES OF E-MAIL:

- 1. It is fast. Massages can be sent across the world within minutes.
- 2. Less expensive as compared to Post & FAX
- 3. More reliable than postal services (postal losses & delay).
- 4. Stationary is saved.
- 5. Time slot of day is not the binding. Message can be sent at any time

Q.74 Write down the requirement of E-Mail?

Ans. :- REQUIREMENTS :

The requirements for operating an e-mail are :

- A Computer
- A Modem and appropriate communication Software. Modems are quite

