**SESSION MARCH 2023**

**PROGRAM BACHELOR OF BUSINESS ADMINISTRATION (BBA)**

**SEMESTER I**

**COURSE CODE & NAME DBB1105 – COMPUTER FUNDAMENTALS**

**CREDITS 4**

**SET-I**

**1. a. Elaborate on the classifications of computers.**

**Ans: Generations of Computer**

**First Generation Computers [1942 – 1955]**

The first generation computers are vacuum tubes. These computers used vacuum tubes for circuitry and magnetic drums for memory. These computers relied on binary coded language to perform operations and were able to solve only one problem at a time. They were very large in size and required a lot of space for installation. These computers lacked in versatility

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**b. Explain the key characteristics of each generation of computers.**

**Ans: Main characteristics of first generation computers are:**

|  |  |
| --- | --- |
| Main electronic component | Vacuum tube. |
| Programming language | Machine language. |
| Main memory | Magnetic tapes and magnetic drums. |
| Input/output devices | Paper tape and punched cards. |
| Speed and size | Very slow and very large in size (often taking up entire room). |

**2. Convert (1D7F)16 to an Octal system number and (5A9.63)16 to a decimal system number**

**Ans:**

**To convert (1D7F)16 to an octal system number:**

**Step 1:** Write down the hexadecimal number and separate it into groups of three digits from right to left. If there are any extra digits, add a zero to the left.

1 D 7 F

001 101 111 111

**Step 2:** Convert each group of three binary digits into one octal digit.

**3. a. Discuss the advanced formatting options available in MS Word.**

**Ans:**

**Advanced Formatting in MS word:-**

**Working with tables**

Tables consist of rows and columns. Tables can be used for many different purposes. It can be used to store data, pictures, text, etc.

**There are 2 ways of drawing tables in Word:**

* Use table menu

**b. How would you create a custom template and apply it quickly to slides?**

**Ans: Users can create their own custom templates.**

Open up a new document

* Format the document as desired – change fonts, margins, spacing, add styles etc.
* When saving the document, select save document as. The save document as dialog box opens.
* Name the template and from the Save as type drop down menu, select

**SET-II**

**4. a. Explain various design strategies for Software SystemDesign.**

**Ans: The various design strategies for Software System Design:-**

### ****Bottom-up Strategy****

This kind of system design strategy revolves around designing the subsystems and the lowest-level components (even sub-components) first. By designing these components first, the higher-level subsystems and larger components can then be built easily and more efficiently. This allows less time to be wasted in conducting recon and troubleshooting. The

**b. What are the four quality measures for building software products?**

**Ans: Four quality measures for building software products:-**

* Correspondence – measures how well the delivered system matches the needs of the operational environment, as described in the original requirements statement.
* Validation – task of predicting correspondence.

**5. a. Enlist the main functions of the operating system.**

**Ans:** An operating system is a software component that acts as the core of a computer system. It performs various functions and is essentially the interface that connects your computer and its supported components.

The main functions of an operating System are: Resource Management: The resource management function of an operating system allocates computer resources such as CPU time,

**b. Describe various components of operating systems.**

**Ans: Even though, not all systems have the same structure many modern operating systems share the same goal of supporting the following types of system components.:-**

**1.Process Management** The operating system manages many kinds of activities ranging from user programs to system programs like printer spooler, name servers, file server etc. Each of these activities is encapsulated in a process. A process includes the complete

**6. a. Discuss the TCP/IP protocol layers with the help of a diagram.**

**Ans:**

**These layers include**:

(i) **Application layer:** The application layer is provided by the program that uses TCP/IP for communication. An application is a user process cooperating with another process usually on a different host (there is also a benefit to application communication within a single host).

**b. Explain how the internet works.**

**Ans:**

**Detailed Architectural Model**

**The internet works:-**

In a network if you wish to send mail, enter the name of the user (i.e., the user name to whom you wants to send the mail). The E-mail system of the network sends the mail to the