**Assignment**

**DBB1105 – COMPUTER FUNDAMENTALS**

**Set- First**

**1. a. Define Computers?**

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

**Ans:** The term ‘computer’ is derived from the word ‘compute’, which means to calculate. A computer can be defined as an electronic device which processes the input (data) and displays the desired output. Computer is also used for storing data. In this unit you will be studying characteristics of computers and get to know Its Half solved only

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

**Answer:**

**Convert (1D7F) 16 to an Octal system number:**

(1D7F)16->

Here 1 in binary is: 0001

**3. Discuss the advanced formatting options available in MS Word. How would you create a custom template and apply it quickly to slides?**

**Answer:**

**Word’s Advanced Formatting**

1. Drop Caps

2. Orphan/ Widow Control

3. Footnotes & Endnotes

**Set- Second**

**4. Explain various design strategies for Software System Design.**

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

**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

**5. Enlist the main functions of the operating system? Describe various components of operating systems.**

**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

**6. Discuss the TCP/IP protocol layers with the help of a diagram. Explain how the internet works**

**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). Examples of applications include