Ouestion 1 : Why do computers understand only binary language?

Ans : The computer understands only binary language because it's designed to do so. A computer can only understand 0s and 1s. Binary code is made up of both (0s and 1s).

2. What is the full form of IDE?

Ans : Integrated Development Environment.

3. What is the difference between a text editor and a code editor?

Ans : A text editor is comparable to a code editor; however, a code editor offers significantly more functionality. Text editors with sophisticated built-in capabilities and specific functionalities designed to easy and speed up the process of editing code are referred to as code editors.

4. What are the steps to develop software using the C language?

Ans : To develop software using the C language first we make a .c file and then preprocessor process the header files and now the program which are written in main() function are converted into object file with the help of compiler now using linker and library files we convert object file into exe file which are our required software.

5.

a. What is the latest version of C Language?

Ans : c17 is the latest version of c.

b. Who developed C Language?

Ans : Dennis Ritchie

c. What is the difference between System and Application Software?

Ans : **System Software** is the type of software that is the interface between application software and system. Low-level languages are used to write the system software. System Software maintains the system resources and gives the path for application software to run. An important thing is that without system software, the system can not run. It is a general-purpose software.
Application Software is the type of software that runs as per user request. It runs on the platform which is provided by system software. High-level languages are used to write the application software. It's a specific purpose software. The main difference between System Software and Application Software is that without system software, the system can not run on the other hand without application software, the Low-level maintainssystem always runs.

d. How to convert a number from a decimal number system to a binary number

system?

Ans : For converting Decimal numbers into binary numbers, use different methods such as formula, division method, and so on. Here, use the remainder formula. Steps to convert decimal number to binary number using decimal to the binary formula are as follow,

Step 1: Divide the given decimal number by 2, find the remainder (R_i).
Step 2: Now divide the quotient (Q_i) that is obtained in the above step by 2, find the remainder.
Step 3: Repeat the above steps 1 and 2, until 0 is obtained as a quotient.
Step 4: Write down the remainder in the following manner: the last remainder is written first, followed by the rest in the reverse order (R_n, $R_{(n-1)}$ …. R_1). thus binary conversion of the given decimal number will be obtained.