

Q. 4. Answer in detail (Any Two) (20)

1. Explain the features of C language.
2. What are the characteristics of computer?
3. Explain the character set of C.
4. What is application software?

Q. 5. Case study (15)

The C programming language was developed at AT&T's Bell Laboratories in USA in 1972. This language has been designed and written by Dennis Ritchie. C is a very robust programming language and has a rich set of built in functions. C is simple to learn and easy to use. C language is suitable for writing both system software and application programs and business packages. The Unix operating system was also developed at Bell laboratories around the same time. Thus C is strongly associated with Unix. In fact, Unix is coded almost entirely in C. As we have already seen, programming languages are categorised as high level programming languages and low level programming languages. C is between these two categories. The C compiler has the capabilities of the machine language and the features of a high level language. Initially C was mainly used in academic environments. But with its growing popularity C is now one of the most popular high level programming language and is running under many operating systems. C language is highly portable i.e. C programs written for one computer can be run on another computer with very little or no modifications. C has only 32 keywords but a number of built in functions. Thus a C program is basically a collection of functions which are supported by the C library. We can make efficient use of these functions in our programming tasks. One can also add new functions to the library. Identifiers are names given to variables, functions and arrays. These are the names which are user defined. They are made up by a combination of letters and digits. Normally an identifier should not be more than 8 characters long. The use of underscore is also permitted in identifiers. However, it is imperative that identifiers should begin with a letter.

Answer the following.

1. What is Identifier in C?
2. Explain the features of C language in short.
3. What is a C program?
