

**III semester B. Sc. (IT) Assignment Questions or C1 Component
January 2021**

Subject: Object Oriented Programming with C++

Answer any two of the following questions.

1. What is an object oriented programming? Explain the basic concepts of OOP's with an example.
2. What are control statements? Discuss their types with an example.
3. How do you pass an object as arguments in C++? Explain with an example.
4. What is a friend function? Explain with an example.

Subject: Systems Software

Answer any two of the following questions.

1. Discuss the various components of a programming system in detail.
2. With a neat diagram discuss the general machine specification (IBM 360/ 370 series or SIC machine).
3. Explain the importance of systems softwares hence discuss the need for the development of assembly language and correspondingly its translator, the assembler.
4. Elaborate the design of an assembler in detail.

Subject: Data Communication and Computer Networks

Answer the following questions.

1. Write about the various types of guided and unguided media. Also explain the different types of modulations.
2. Differentiate OSI model and TCP/IP model. Discuss the functions of each layers in OSI model.

