F.M:80   **Time: 3 Hrs**

1. Answer any six questions   6X5=30

a) Define switching. What are the advantages of Packet switching over Circuit switching?

b) Briefly explain any one error control techniques.

c) What are the Differences between MANCHESTER and Differential MANCHESTER Encoding? Explain with a suitable example.

d) Write the functions of presentation layer and session layer of OSI Model.

e) What do you mean by unguided media? Briefly explain any on unguided media.

f) Discuss any one protocol of Network layer of TCP/IP.

g) Write short not on Token Ring.

h) Define routing. What are the advantages of dynamic routing over static routing.

2. Answer any five Questions   5x10=50

a) Define Multiplexing. Briefly explain TDM and FDM.

b) What is topology? What are the different types of Topology? Explain Star and Mesh topology?

c) What is twisted pair cable? Write down their applications. What is baseband and broadband communication?

d) What do you mean by 'WWW' and Internet? How IP addresses are assigned in computer networks.

e) What is CSMA/ CD protocol? How does it work?

f) Discuss any two Digital to Analog encoding techniques in brief.

g) Write the differences between bit oriented and character oriented protocols. Write short note on SDLC protocol.

F.M:80   **Time: 3Hrs.**

1. Answer any Six Questions.   6x5=30

a. What are the different types of Configuration files that the .Net Framework provides?

b. Discuss the evolution of WWW .

c. Differentiate between validation and verification with example.

d. Write the differences and similarities between ASP and ASP.Net.

e. Describe the events used in the life cycle of a web Application.

f. Discuss Syntax Input Controls and Table Controls of HTML Server Controls.

g. What are the major components of the .Net framework? Explain briefly.

h. Define web browser. Explain the features of various web browsers.

2. Answer any five Questions.   5x10=50

a) What are the development tool and operational system that .Net provide to build, deploy and integrate application? Explain in details.

b) Write a program to create user registration form in one ASP.NET web page and display filled data in another page.

c) Describe single tier, two tier and N tier architecture of .Net.

d) Explain the ADO.Net model and its components in details.

e) Write a program in VB.Net to connect to a database and add a record in the table named STUDENT, taking details from the user and display the record in a Datagrid control.

f) Explain the Object Oriented Features in .Net. Write down the differences between overloading & overriding.

g) Write a program for structured and unstructured exception handling in .Net.