

N.B. : (1) Attempt any **five** questions.
 (2) Make assumptions if **required**.

1. (a) Explain OSI model. Give functions of each layer. How does the data link layer in OSI model work ? **10**
- (b) Discuss the S/W and H/W issues in internet working. How does router work and discuss issues involved in routing. **10**

2. (a) Write HTML code to create the following format : **10**

XYZ College of Engineering						
Statement of Marks						
Roll No. :			Sem :			
Name :			Branch :			
Subject Name	Marks					
	Term Work		Oral		Theory	
	Min.	Obtained	Min.	Obtained	Min.	Obtained
Subject 1						
Subject 2						
Subject 3						

- (b) Write HTML Code to implement : **10**
 - (i) Multiline input field on a form
 - (ii) Validating text element data prior to submitting form results.

3. (a) What is IP version 6 (IPV 6). Why is it required ? Describe 3 parts of an IP address. **10**
- (b) Explain the process involved in sending a datagram from one host to another host on a different network. **10**

4. (a) Write a normal JSP program to display current time and date. **10**
- (b) Write an ASP program to accept Login id and password, after verifying password accept the following data First Name, Middle Name, Last Name, Date of Birth, Sex, Qualification, and Age. **10**

5. (a) Discuss the FTP connection mechanism between the client and the server ? Give difference between SMTP and POP. **10**
- (b) When a DNS server receives a request, what are the possible actions that it can take ? What is resolver ? **10**

6. (a) What are the three approaches for e-commerce application development ? What are the differences between a commerce server and a packaged application ? **10**
- (b) Discuss the phases in a procurement process and specify benefits realised from e-procurement ? **10**

7. (a) Explain with example RSA algorithm. **10**
- (b) What is Firewall. Give broad level architecture at a broad level. **10**