

B4.5-R4: INTERNET TECHNOLOGY AND WEB SERVICES

NOTE:

1. Answer question 1 and any FOUR from questions 2 to 7.
2. Parts of the same question should be answered together and in the same sequence.

Time: 3 Hours

Total Marks: 100

1.
 - a) What is difference between IPv4 and IPv6?
 - b) What is Hypertext Transfer Protocol (HTTP)? What is HTTP session?
 - c) What is the Web service protocol stack?
 - d) Define Common Gateway Interface (CGI). Name at least FOUR environment variables those are passed to CGI programs.
 - e) What are the types of ActiveX Components in Visual Basic?
 - f) What is the difference between JPEG and MPEG?
 - g) What is Denial Of Service (DoS) attack?

(7x4)

2.
 - a) Write differences between Java Server Pages (JSP) and Active Server Pages (ASP).
 - b) Write a short note of World Wide Web (www).
 - c) What is Open Source Initiatives? Discuss its importance and philosophy?

(6+6+6)

3.
 - a) Explain Unicast, Broadcast, Multicast and Anycast communication modes.
 - b) What is the Relationship between UDDI and WSDL? Explain it in detail.

(9+9)

4.
 - a) What is XML Signature? How does XML signature provide for non-repudiation?
 - b) Write various steps involved in JPEG file encoding process.
 - c) What is the difference between Server-side and Client-side scripting in creation of a web application?

(6+6+6)

5.
 - a) What is the usage of Repeaters, Bridges, Routers, and Gateways? Discuss in detail.
 - b) What is the role of Digital signature in Non Repudiation?
 - c) How is JavaScript different from Java?

(6+6+6)

6.
 - a) Explain in detail about Simple Object Access Protocol (SOAP).
 - b) Write short note on VoIP.
 - c) What is a Datagram? Discuss the structure of a Datagram with an example.

(6+6+6)

7.
 - a) Explain in detail the role of each component of LAMP in creation and deployment of a Web application.
 - b) What is AVI? What is its relation with QuickTime?
 - c) How do cookies work? How cookies can be created?

(6+6+6)