

## **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) Explain in brief about HTTP protocol.
  - (b) Explain advantages and disadvantages of Apache Web Server.
  - (c) What is SQL injection attack ? How can it be prevented ?
  - (d) Explain structure and components of IPV4 packet header.
  - (e) Explain the structure of Datagram with suitable example.
  - (f) What is a cookie ? Write a servlet program to create cookie.
  - (g) Differentiate between JPEG and MPEG. (7x4)
  
2.
  - (a) Explain the advantages and disadvantages of wireless network.
  - (b) Explain open source software technologies in brief.
  - (c) Explain JSP life cycle in detail. (6+6+6)
  
3.
  - (a) Discuss the working of ActiveX control with a suitable example.
  - (b) Differentiate between GET and POST method of HTTP Servlet.
  - (c) Explain the Simple Object Access Protocol (SOAP). (7+5+6)
  
4.
  - (a) Write a note on Web Services Description Language (WSDL). How is it different from UDDI (Universal Description Discovery Integration) ?
  - (b) Write a short note on TCP/IP protocol stack.
  - (c) Explain the importance of session tracking in server side programming. (6+6+6)
  
5.
  - (a) Compare and Contrast between different multimedia compression techniques.
  - (b) Explain the role of the Web Server Gateway Interface. (9+9)
  
6.
  - (a) Explain the term proxy server with its functions in computer network.
  - (b) Explain the 3-tier architecture for web applications along with its advantages.
  - (c) What is a Servlet ? What are the advantages of Servlet over CGI ? (6+6+6)

7. (a) Write short notes on the following :
- (i) Open Source Initiative
  - (ii) Virtual Reality
  - (iii) Client Server Architecture
- (b) Describe MVC architecture with suitable example. (9+9)

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