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 unicast and broadcast.
b)   Explain HTTP request and HTTP response.
c)   What is the role of Apache server?
d)   What is Open Source? What are the main advantages of Open Source products?
e)   Differentiate between Session and Cookie.
f)   Explain various types of security attacks.
g)   What is JSP? Compare JSP with Servlet.

(7x4)

2.
a)   Explain client/server architecture and also list advantages of 3 Tier architecture.
b)   What are the differences between client side scripting and server side scripting?

(10+8)

3.
a)   Explain IP addressing in details.
b)   What is VOIP? Explain functionality of it.

(9+9)

4.
a)   What is Web Service? Explain WSDL, SOAP and UDDI in detail.
b)   List out OSI layers and differentiate between TCP and UDP.

(9+9)

5.
a)   What is Array? What are the different types of array supported by PHP?
b)   Differentiate between IPv4 and IPv6.
c)   How does the three-way handshake work for creating a TCP connection?

(6+6+6)

6.
a)   Write a php code which insert employee_id, employee_name, department and mobile number into database using HTML form.
b)   What is encryption? Differentiate between public key cryptography and private key cryptography.
c)   What is XML? How does XML resolve the resource sharing problem on internet?

(7+7+4)

7.   Write a Short Note on following:
a)   Virtual Reality
b)   VPN
c)   VB Script

(6+6+6)