B4.5-R4 : INTERNET TECHNOLOGY AND WEB SERVICES

NOTE :

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1.	Answer	question	anu a	any FOUR	Irom e	questions	2 to	1.

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 FTP ? Explain in brief.
 - (b) What is a Datagram? Discuss the structure of a Datagram with an example.
 - (c) Differentiate between Client-side and Server-side scripting.
 - (d) How does the 3-way handshake work for TCP ?
 - (e) What are World Wide Web and DNS? Why is DNS so important for the World Wide Web ?
 - (f) What is SQL injection attack? How it will be prevented.
 - (g) Write any four differences between IPv4 and IPv6.

(7×4)

- **2.** (a) What is Web Services ? Explain different components (SOAP, WSDL, UDDI) of Web Service.
 - (b) Write the name of OSI network layers. With the help of block diagram, describe how communication takes place between two host using OSI layers.

(10+8)

- **3.** (a) What is MySQL ? Explain following MySqli function using php server side script.
 - (i) mysqli_connect()
 - (ii) mysqli_query()
 - (iii) mysqli_fetch_array()
 - (iv) mysqli_select_db()
 - (b) How symmetric key cryptography is different from asymmetric key cryptography? Give suitable example.

(9+9)

- 4. (a) What is the difference between unicast, broadcast and multicast traffic ? Give an example of a unicast and a broadcast protocol.
 - (b) What is a Digital Signature ? Explain how it helps to ensure Authentication, Integrity and Non-Repudiation.

B4.5-R4

- (c) Write PHP script for following tasks :
 - (i) Design HTML form which include Student ID, Student Name, Email
 - (ii) Create database, [Database Name should be 'Students']
 - (iii) Create table and insert ten records.
 [Table Name should be 'tblStudent_Info' and it contains stdID, stdName, Email]
 - (iv) Retrieve all records from tblStudentInfo' table and display in HTML table.

(5+6+7)

- 5. (a) What is Array ? What are the different types of array supported by PHP ? Explain with example.
 - (b) What is Java Server Pages ? Draw and explain life cycle of JSP.
 - (c) Differentiate between Session and cookies. Give suitable example

(6+6+6)

- **6.** (a) Explain in detail the role of each component of WAMP (Windows, Apache, MySQL and PHP/Perl) in creation and deployment of a Web application.
 - (b) Write various steps involved in jpeg file encoding process.

(9+9)

- 7. Write a short note on following :
 - (a) VPN (Virtual Private Network)
 - (b) GET vs POST
 - (c) TCP/IP Protocol stack

(6+6+6)