**Karunya University**

**(Karunya Institute of Technology and Sciences)**

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

**Supplementary Examinations – June 2016**

**Subject Title:TCP/IP Time : 3 hours**

**Subject Code: 14CS2066 Maximum Marks: 100**

**Answer ALL questions (5 x 20 = 100 Marks)**

1. **Compulsory:**

a. Draw and explain the Layers of TCP / IP Protocol Suite. (10)

b. List and explain the different addresses used in various layers of TCP / IP. (10)

2. Explain classful and classless IP addressing with suitable examples.

**(OR)**

3. Explain the following with respect to IPV4.

a. Fragmentation. (5)

b. Checksum. (5)

c. TTL (10)

4. List and explain various ICMPv4 messages and their usages.

**(OR)**

5. Differentiate distance vector routing protocol and link state routing protocol.

6. Describe Go-Back-N Protocol and Selective Repeat protocol.

**(OR)**

7. Describe the connection establishment and connection termination process of TCP with neat sketch.

8. Explain the following:

a. Name-Address resolution in DNS. (10)

b. Types of records used in DNS. (10)

**(OR)**

9. Compare and contrast IPv4 and IPv6.