COURSE CODE: DCAP 406
COURSE TITLE: COMPUTER NETWORKS

Time Allowed: 3 hours   **Max. Marks: 80**

1. *This paper contains 10 questions divided in two parts on 1 page.*

2. Part A is compulsory.

3. In Part B (Questions 2 to 10), attempt any 6 questions out of 9. Attempt all parts of the selected question.

4. *The marks assigned to each question are shown at the end of each question in square brackets.*

5. *Answer all questions in serial order*.

6. The student is required to attempt the question paper in English medium only.

PART-A

Q1(a) Write uses of fast Ethernet.   [2]

(b) How computer network can be used in client server model?   [2]

(c) Describe role of World Wide Web.   [2]

(d) What do you understand by quality of service?   [2]

(e) Elaborate role of DNS.   [2]

(f) What do you mean by channel allocation problem?   [2]

(g) How public switched telephone network different from mobile telephone system.   [2]

(h) Discuss design issues of data link layer.   [2]

(i) How satellite can be used for communicate.   [2]

(j) Describe application of computer network.   [2]

PART-B

Q2 Show the error detection and correction with help of proper example.   [10]

Q3 Elaborate need of Multiple Access Protocol by taking example of three multiple access protocol.

                                                                                            [10]

Q4 Describe Design Principle of OSI Reference Model with role of each layer in detail.   [10]

Q5 Elaborate Architecture of Mobile Telephone system along with detailed Diagram.   [10]

Q6 Discuss various types of wireless Transmission media with help of proper example.   [10]

Q7 "Data link layer provides flow control and error control" write your comment to support statement with the help of protocol.   [10]

Q8 "Congestion Degrades performance of Network" Justify Statement with one of best congestion control algorithm.   [10]

Q9 Discuss Format of TCP and UDP Protocol along with application of each protocol.   [10]

Q10 Compare various topologies with advantage and disadvantage of each.   [10]