Registration No.:_____

PNR No:: 117181DCA467475

COURSE CODE : DCAP406

COURSE NAME : COMPUTER NETWORKS

Time Allowed: 03:00 hrs ***Max.Marks: 80***

1. This question paper is divided into two parts A and B.
2. Answer all the questions in serial order.
3. Part A contains 10 questions of 2 marks each. All questions are compulsory.
4. Part B contains 10 questions (Questions 2 to 11) of 10 marks each, attempt any 06 questions out of 10. Attempt all parts of the selected question. Only first 06 attempted questions would be evaluated.
5. The student is required to attempt the question paper in English medium only.
6. Simple non programmable calculator is allowed.

PART A

Q1(a) Differentiate between a MAN and a WAN.
(b) What is a purpose of layer isolation in the OSI reference model?
(c) What is the purpose of cladding in an optical fiber? Discuss its density with respect to the core.
(d) How satellite communication is different from radio broadcast?
(e) What are different data link protocol available? Why does PPP have become popular?
(f) How does pipelining improve data link layer protocol throughput?
(g) What do you mean by channel allocation problem?
(h) What is the role of guard band in multiplexing?
(i) What do you understand by quality of service?
(j) What is Domain Name System?

PART B

Q2 What is cryptography? Explain various types of Ciphers.
Q3 What is modulation? How does modulation help in reducing the size of antenna for transmission?
Q4 What advantage does selective Repeat sliding window protocol offer over Go Back N protocol?
Q5 What are two types of congestion control? Discuss various congestion control techniques.
Q6 How computer networks are useful in e -commerce applications? Explain with the various forms of e -commerce.
Q7 What are the different layers in OSI model? Discuss the main responsibility of each layer.
Q8 Discuss about the channel allocation problem in detail.
Q9 Explain the basis of data communication with respect to Fourier analysis. How to calculate the maximum data rate of a channel?
Q10 How error correction is done in data link layer? Explain the techniques for the error correction in detail.
Q11 Explain the working of Ethernet. What are the different types of Ethernet? Explain them.

-- End of Question Paper --