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) What are the Components of Computer Network?

(b) What is an Encapsulating Bridge?

(c) What protocols are used in email service?

(d) Define PSTN.

(e) What is error control?

(f) Hoe does PPP establish link for authenticated transfer to file?

(g) What is the difference between secret key and public key encryption?

(h) What is the role of guard band in multiplexing?

(i) What are the different quality of services parameters at the transport layer?

(j) How is www different from Internet?

PART B

Q2 The IEEE has split the data link layer in LAN such as Ethernet and Token ring into two sub layers. Which of these layers deals with errors detection?

Q3 Explain the concept of Cable TV network in detail with the help of example?

Q4 What is router and main purpose of using router in a network illustrate with the help of diagram.

Q5 How does SMTP work in transferring mails from one computer system to another computer system attached to different networks?

Q6 What are the design issues in data link layer? Explain each one of them in detail.

Q7 What are the various categories of network? Explain them with example.

Q8 How carrier sense multiple access protocols works? Explain in detail.

Q9 What do you mean by routing? What are the various routing algorithms? Explain them with their working.

Q10 Explain in detail about the data link layer switching .

Q11 Explain in detail about the guided transmission media with example related to each one of them.

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