

Printed Pages : 3



EEEC809

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 121801

Roll No.

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B. Tech.

(SEM. VIII) THEORY EXAMINATION, 2014-15
DATA COMMUNICATION NETWORKS

Time : 3 Hours]

[Total Marks : 100

Note : Answer all the Questions:

1 Attempt any four parts. **5x4=20**

- (a) Explain the different uses of computer network.
- (b) List the various layers of OSI model. Briefly explain the working of each of them.
- (c) What do you mean by Synchronous and asynchronous transmission?
- (d) Explain the PCM in details. Discuss the specifications of Ethernet.
- (e) What do you mean by computer architecture? Explain.
- (f) Explain EIA RS 232 C. Write short notes on Transmission media.

121801]**1****[Contd...**

2 Attempt any four parts. **5x4=20**

- (a) Explain HDLC protocol with its frame structure.
- (b) Explain GO-BACK-N ARQ mechanism for error and flow control.
- (c) What do you mean by authentication protocol? Explain with flow diagram.
- (d) What are the main data link layer design issues? Discuss briefly.
- (e) What do you mean by 'Framing'? What are the methods of it?

3 Attempt any four parts. **5x4=20**

- (a) What are the differences between router and gateways? Explain.
- (b) What do you understand with congestion? Explain.
- (c) Explain the following.
 - (i) Leaky bucket algorithm.
 - (ii) Token Bucket Algorithm.
- (d) Compare and describe different generations of Ethernet used in wired LAN.
- (e) Explain Internetworking in details.

4 Attempt any two parts. **10x2= 20**

- (a) Describe ATM Protocol layers and compare them to the OSI protocol hierarchy.
- (b) What do you mean by ALOHA protocol? Draw its flow chart diagram.
- (c) Describe the various design issues of transport layers. What do you mean by Connection management?

5 Attempt any two parts : **10x2=20**

- (a) What do you understand by TCP and UDP? Explain.
 - (b) Answer the following :
 - (i) Compare the salient features of HTTP and FTP.
 - (ii) Differentiate between TFTP and SMTP.
 - (c) Write short notes on any of two.
 - (i) DNS
 - (ii) WWW
 - (iii) Subnetting.
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