B.E. Computer Technology Sixth Semester
## CT602 - Computer Network & Communication

P. Pages : 1

Time : Three Hours

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*1357*

Max. Marks : 80

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Notes : 1. All questions carry equal marks.
2. Due credit will be given to neatness and adequate dimensions.
3. Assume suitable data wherever necessary.

**1.** a) What is a LAN? Can a LAN has routers? What is the difference between a packet and a frame? **8**

b) Briefly explain the cyclic redundancy check error detection scheme prove the validity of the scheme. **8**

**OR**

**2.** a) Write short note on Asynchronous Transfer Mode reference model. **8**

b) Explain any one protocol used in noisy channel for controlling flow of data. **8**

**3.** a) Explain point to point protocol frame format. **8**

b) Write short note on pure Aloha and slotted Aloha. **8**

**OR**

**4.** a) Name some collision free protocols. Explain any one collision free protocol. **8**

b) Write short note on static channel allocation method. **8**

**5.** a) What is routing algorithm? Explain its types and properties. **8**

b) Explain connection-less services implementation in Network Layer. **8**

**OR**

**6.** a) Describe the major difference between virtual circuit subnet and datagram subset. **8**

b) Write short note on shortest path Routing. **8**

**7.** a) What are the primitives that are widely and in Berkeley Socket. **8**

b) Explain TCP three way handshake process. **8**

**OR**

**8.** a) Explain user Datagram Protocol Segment header. **8**

b) Write short note on elements of transport protocol. **8**
i) Address          ii) Releaxy a connection

**9.** a) Explain how Domain Name system is used to map domain name to IP address. **8**

b) What is the role of HTTP? Why it is called a stateless protocol. **8**

**OR**

**10.** Write short note on:- **16**
i) Static and Dynamic Webpages.      ii) Simple mail Transfer Protocol
iii) Uniform Resource Location        iv) Cookies

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