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## Question Paper Code: 77102

## B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

## Fourth Semester

. Computer Science and Engineering

## CS 6551 — COMPUTER NETWORKS

(Regulation 2013)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A —  $(10 \times 2 = 20 \text{ marks})$ 

- What do you mean by error control'?
- Define flow control.
- 3. What do you understand by CSMA protocol?
- List the functions of bridges.
- 5. How does a router differ from a bridge?
- 6. What are the metrics used by routing protocols?
- 7. List some of the Quality of Service parameters of transport layer.
- 8. How does transport layer perform duplication control?
- Define SMTP.
- 10. What are the groups of HTTP header?

PART B —  $(5 \times 16 = 80 \text{ marks})$ 

11. (a) Discuss in detail about Internet Architecture.

(16)

Or

(b) What is the need for error detection? Explain with typical examples. Explain methods used for error detection and error correction. (16)

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12.	(a)		lain in detail about the access method and frame format use ernet and token ring.	d in (16)
			$\mathbf{Or}$	
	(b)	(i)	Discuss the MAC layer functions of IEEE802.11	(8)
		(ii)	Briefly define key requirements of wireless LAN	(8)
13.	(a)	Exp	lain the shortest path algorithm with suitable illustrations.	(16)
			Or	
	(b)		lain the distance vector routing algorithm. Mention the limitatio same.	ns of (16)
14.	(a)	_	lain the various fields of the TCP header and the working of the ocol.	TCP (16)
			Or	
	(b)	(i)	Explain the three way handshake protocol to establish transport level connection.	the (8)
		(ii)	List the various congestion control mechanisms. Explain any or detail.	ne in (8)
15.	(a)	(i)	Explain the message transfer using Simple Mail Transfer Proto	col. (8)
		(ii)	Explain the final delivery of email to the end user using POP3.	(8)
			Or	
	(b)	Writ	te short notes on	
		(i)	Web services	(8)
		(ii)	SNMP.	(8)