Roll No.

Total Pages : 2

### **BCA/D-21**

# 1205

## COMPUTER NETWORKING Paper-BCA-354

Time : Three Hours]

[Maximum Marks : 80

Note: Attempt *five* questions in all. Question No. 1 is compulsory. In addition to compulsory question, candidates have to attempt *fou*r more questions selecting *one* question from each unit. All questions carry equal marks.

#### UNIT-I

#### (Compulsory Question)

1.	(a)	Define Hub.	(2)
	(b)	Differentiate between analog and digital Trans	mission.
			(2)
	(c)	Write a Short note on Cable Modem.	(2)
	(d)	Write a short note on Dynamic Routing.	(2)
	(e)	Define VLAN.	(2)
	(f)	Write a short note on Security Attacks.	(2)
	(g)	Explain the full form of CRC.	(2)
	(h)	Write a short note on Gigabit Ethernet.	(2)

#### UNIT-II

- 2. Write a short note on each of the following :
  - (a) Bridges.
  - (b) Router.

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(b) Explain Encryption Method in detail. (8)		(c) (d)	Switch. Gateway.	(16)	
<ul> <li>4. (a) Differentiate Between Guided and wireless media of Transmission. (8)</li> <li>(b) Differentiate between Pulse code modulation and Frequency Modulation. (8)</li> <li>5. Explain Multiplexing Techniques in Detail. (16)</li> <li>UNIT-IV</li> <li>6. (a) Explain Architecture of IEEE 802.11. (8)</li> <li>(b) Explain Architecture of Bluetooth. (8)</li> <li>7. Explain Collision based Protocols and Collision Free Protocols. (16)</li> <li>UNIT-V</li> <li>8. (a) Explain Link State routing with Example. (8)</li> <li>(b) Explain Encryption Method in detail. (8)</li> <li>9. (a) What do you mean by Network Security? (8)</li> <li>(b) How Congestion can be controlled in computer</li> </ul>	3.		services with Example.		
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