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## 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 *four* more questions selecting *one* question from each unit. All questions carry equal marks.

### UNIT-I

# (Compulsory Question)

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

	(c)	Switch.	
	(d)	Gateway.	(16)
3.	(a)	Discuss connection oriented and connecti services with Example.	on less
	(b)	Explain Network topologies.	(8)
		UNIT-III	
4.	(a)	Differentiate Between Guided and wireless m Transmission.	nedia of
	(b)	Differentiate between Pulse code modulation.	ion and
5.	Exp	lain Multiplexing Techniques in Detail.	(16)
		UNIT-IV	
6.	(a)	Explain Architecture of IEEE 802.11.	(8)
	(b)	_	(8)
7.	Exp	olain Collision based Protocols and Collision	on Free
	Prot	cocols.	(16)
		UNIT-V	
8.	(a)	Explain Link State routing with Example.	(8)
	(b)	Explain Encryption Method in detail.	(8)
9.	(a)	What do you mean by Network Security?	(8)
	(b)	How Congestion can be controlled in co	, ,
	` /	Network?	(8)