LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.C.A. DEGREE EXAMINATION - COMPUTER APPLICATIONS

THIRD SEMESTER - NOVEMBER 2017

16PCA3MC02 - 1	DATA COMMUNICATION	S AND NETWORKING
Date: 03-11-2017 Dep Time: 09:00-12:00	pt. No.	Max. : 100 Marks
	PART – A	
Answer all Questions:		$10 \times 2 = 20$
 What are the criteria for network? What is switching? Mention its type List the protocols for random acces What are the categories of connection Mention the messages of ICMP. What is BGP? List its messages. State the use of DNS. Mention few What are the objects of MIB? List the various security attacks. What are the services of SSL? 	ss, controlled access and channeling devices?	elization.
The white the services of SSL.	PART – B	
Answer all Questions:		$5 \times 8 = 40$
11.a. Illustrate the polar encoding techr	niques.	
(C	OR)	
b. What is Multiplexing? Explain its	s types.	
12.a. What is BLUETOOTH? Explain	its networks.	
(C	OR)	
b. Describe error detecting codes wit	th example.	
13.a. Illustrate unicasting, multicasting	g and multiunicasting with nece	ssary diagram.
	(OR)	
b. Explain the following		
•	Pv4 and IPv6 headers(2 marks)	
ii. transition from IPv4 to	,	
14.a. Describe the architecture of email.		
`	OR)	
b. Explain the following in UDP		
i. queueing technique	ii.package	
15aWhat is IPSec? Explain the two n		
1 D 1 C D 2	(OR)	
b. Explain RSA algorithm.		

PART - C

Answer any TWO Questions:

 $2 \times 20 = 40$

- 16. a. Explain the different functionalities of the layers of the OSI model.(15 marks)
 - b. Write short notes on the types of networks. (5 marks)
- 17.a. Illustrate the various Ethernet standards.
 - b. Explain the link state routing algorithm with an example.
- 18.a. Illustrate the TCP connection establishment using time line..
 - b. Explain in detail the categories of traditional symmetric key cippers.
