



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE**

FIRST SEMESTER – APRIL 2017

**16PCS1MC05- ADVANCED COMPUTER NETWORKS**

Date: 05-05-2017  
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

**Section A**

**Answer All the questions**

**(10 X 2=20)**

1. What is multicasting ?
2. What is NIST? Write down the usage of NIST.
3. What is twisted pair?
4. What is Teledesic?
5. What is selective flooding?
6. Define datagram.
7. What is TSAP and NSAP?
8. What are the elements of transport protocol?
9. Define silly window syndrome
10. What is Adhoc network?

**Section B**

**Answer any Five questions**

**( 5X 8 =40)**

11. a) Explain the protocol hierarchies.  
(OR)  
b) Explain TCP reference model? How it differs from OSI model?
12. a) Explain GEO satellites and its characteristics.  
(OR)  
b) Explain Microwave transmission in detail.
13. a) Explain shortest path routing algorithm with example.  
(OR)  
b) Explain stop and wait protocol.
14. a) Explain the process of connection establishment in transport layer  
(OR)  
b) Explain crash recovery in client server communication.
15. a) Explain the physical media which support WLAN.  
(OR)  
b) Explain the architecture and the advantages of Bluetooth.

**Section C**

**Answer Any Two questions**

**( 2 X20=40)**

16. (i) Write down the OSI reference model through the layered approach. Explain data link layer and Transport layer in detail.  
(ii) Explain error correcting codes for single bit and burst errors..
- 17 (i) Explain link state routing algorithm with example  
(ii) Explain user datagram protocol in detail
- 18 (i) Explain Bluetooth network configuration and topologies.  
(ii) Explain fiber optics cable and compare with copper wire.

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