Roll No. Total Pages: 02

BT-7/D-19

37207

ADVANCED COMPUTER NETWORKS IT-415N

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

Loit I

- What is a Computer Network? Draw and explain seven layered network architecture.
- 2. (a) Discuss protocols associated with layers of TCP/IP protocol suite.
 - (b) Explore MAC protocols for high speed MANs.

8+7=15

Unit II

- (a) Explain in detail about the advantages of IPv6 over IPv4.
 - (b) What is the need of checksum field in the IPv4 and why it covers only the header? 8+7=15

4. (a) Draw a neat sketch and explain IPv6 protocol architecture.

(b) Elaborate interoperation concepts of IPv4/IPv6.

8+7=15

Unit III

- 5. (a) Explain security related issues in mobile IP.
 - (b) Write a detailed note on address assignments and session discovery.8+7=15
- (a) What is meant by Network Security? Explore secure HTTP.
 - (b) Discuss digital signature and digital certificates.

8+7=15

Unit IV

7. Why do we need Wireless Application Protocols (WAP)?
Explore the various protocols in a WAP protocol suite.

15

- 8. Explain the following:
 - (a) VOIP Services
 - (b) CMIP
 - (c) DVMRP.

5+5+5=15

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P.T.C.

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