1129
M.E. (Computer Science and Engineering)
First Semester
CS-8103: Advance Computer Networks

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt *five* questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

x-x-x

I.   Attempt the following:-

 a) What is BSS in wireless LAN?

 b) Define Tunneling.

 c) What is piconet?

 d) Define cell splitting.

 e) What is adhoc network?

(5x2)

UNIT – I

II.   a) Compare the important features of CSMA and CAMA/CD with example.

 b) Explain the importance of SDN in brief.

(2x5)

III.   a) What is route optimization in mobile IPv6? Explain in brief.

 b) Explain the addressing mechanism of wireless LAN.

(2x5)

IV.   a) Explain the concept of SYN flooding in TCP with example.

 b) Explain the use of flow label in IPv6 with example.

(2x5)

UNIT – II

V.   a) Explain the working principle of WiMAX.

 b) Explain the concept of frequency reuse in cellular communication.

(2x5)

VI.   a) Differentiate between proactive and reactive routing in brief.

 b) What are the challenges in WSNs? Explain in brief.

(2x5)

VII.   a) Explain the various applications of VANETs.

 b) What are the security issues in mobile computing? Explain in brief.

(2x5)

x-x-x