Exam.Code: 0999
Sub. Code: 34978

2076

M.E. Computer Science and Engineering
First Semester
CS-8103: Advanced Computer Networks
(Common with ME Comp. Sci. Cyber Security CSN 8102)
(For UIET only)

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

1. Attempt the following:-
   a) Differentiate between OSI and TCP/IP models.
   b) What do you mean by Neighbor Discovery?
   c) Define Control Plane in SDN.
   d) What is Mobile Computing?
   e) What is RFID? (5x2)

UNIT - I

2. Explain the layered protocol architecture of Gigabit Ethernet. Describe the function of each layer. (10)
3. What is IPv6 tunneling? Explain any two tunneling methods. (10)
4. Explain the architecture of Software Defined Networking and its importance. (10)

UNIT - II

5. With block diagrams, explain Mobile Computing architecture. Discuss mobility management challenges. (10)
6. Describe GPRS architecture, QoS profiles, data services, and limitations with real scenarios. (10)
7. Explain VANET architecture, communication modes (V2V, V2I), urban mobility challenges, and routing requirements. (10)

x-x-x