JAYPEE UNIVERSITY OF INFORMATRION TECHNOLOGY, WAKNAGHAT
TEST-3 EXAMINATION- JUN 2016
B.Tech(ECE/CSE/IT/BI) VIII Semester

COURSE CODE: 11B1WCI836   MAX. MARKS: 35
COURSE NAME: Network Management
COURSE CREDITS: 3   MAX. TIME: 2HRS

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

Q.1. [5 Marks. Each part is half mark]
a) What is channel capacity for direct digital transmission of 3KHz bandwidth at 30 db S/N ratio?
b) List network management standards.
c) What factors effects the data rate of a link?
d) Why does ATM use the cell of small and fixed length ?
e) Differenciate between MAN and WAN.
f) What are common threats to network security.
g) List different types of DSL technologies.
h) What are characteristics of a well managed telephone network?
i) What is network management perspective of restoration of service?
j) What is performance management?

Q.2. [6 marks] Explain the User-based Security Model(USM) in SNMPv3.

Q.3. [6 marks] Describe five commonly used traffic monitoring tools. Explain functions of each.

Q.4. [6 marks] ATM network management uses five management flows(M1-M5). Explain the functions of each.

Q.5. [6 marks] Describe the functionalities of SNMP RMON framework for management of a remote LAN.

Q.6. [6 marks] Write short notes on the following.
a) Network performance metrics.
b) Circuit Provisioning.
c) Role of AAL in ATM Networks.
d) Message architecture in SNMPv2