JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST-3 EXAMINATION- MAY 2019
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 one mark]
a) Why does ATM use the cell of small and fixed length ?
b) List different types of DSL technologies.
c) What are characteristics of a well managed telephone network?
d) What is the channel capacity for direct digital transmission of 3Khz bandwidth at 30 db S/N ratio?
e) Give an expression for average packet delay for data communication network.

Q.2. [6 marks] Describe the architecture of SNMP RMON for management of a remote LAN. Also explain the RMON-1 and RMON-2 functionalities.

Q.3. [6 marks] What is TMN? Explain the TMN conceptual model.

Q.4. [6 marks] Service management is a major network management function in ATM. Explain the ATM services and how QoS is realised through proper network management.

Q.5. [6 marks] Explain the User based Security Model(USM) in SNMPv3.

Q.6. [6 marks] Write short notes on the following.
   a) Network management functional model.
   b) Broadband HFC network management.
   c) Message architecture in SNMPv1