Reg. No.										

MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
A Constituent Institution of Manipal University

I SEMESTER M.TECH. (CSE/CSIS)

MAKEUP EXAMINATIONS, NOV/DEC 2016

SUBJECT: ADVANCED COMPUTER NETWORKS [CSE 5103]
REVISED CREDIT SYSTEM
(/ /2016)

Time: 3 Hours   MAX. MARKS: 50

Instructions to Candidates:

❖ Answer **ALL** the questions.

❖ Missing data may be suitably assumed.

1A. Explain the different types of domains in DNS.   **[3]**

1B. What are the modes of operation in Telnet? Explain.   **[3]**

1C. Draw neat diagrams and explain persistent and non-persistent connections. What are HTTP cookies?   **[4]**

2A. Explain SSH packet format.   **[2]**

2B. What are the limitations of current networking technologies? Distinguish between a legacy physical network and a software defined network.   **[5]**

2C. Explain the SDN layers.   **[3]**

3A. What is an overlay network? What are its advantages and disadvantages?   **[5]**

3B. What is an opflex protocol? List any two important facts about evaluating SDN solutions.   **[2]**

3C. Explain voice over IP with skype.   **[3]**

4A. What are the properties of video? Explain streaming of stored audio/video. **[3]**

4B. Explain the services provided by SIP protocol. **[4]**

4C. What are the services and switching techniques offered by carriers to customers? **[3]**

5A. Explain the different WDM network elements used in optical networking. **[4]**

5B. What is a resilient packet ring? Explain the quality of service provided by it. **[3]**

5C. Explain protection in IP. **[3]**

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