MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
A Constituent Institution of Manipal University

I SEMESTER M.TECH. (CSE/CSIS)

END SEMESTER EXAMINATIONS, NOV/DEC 2016

SUBJECT: ADVANCED COMPUTER NETWORKS [CSE 5103]
REVISED CREDIT SYSTEM
(29/11/2016)

Time: 3 Hours   MAX. MARKS: 50

Instructions to Candidates:
- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitable assumed.

1A. What is name address resolution in DNS? How can it be achieved? **[3]**

1B. What file types and data structures are supported in FTP? Explain. **[3]**

1C. What is out of band signaling in Telnet? Explain any four Telnet options. **[4]**

2A. Explain any four types of HTTP responses. **[2]**

2B. What is SDN? Briefly explain the benefits and use cases of SDN. **[5]**

2C. Compare a business policy with IT policy. How are policies defined in CISCO's SDN solution? **[3]**

3A. What is an open flow protocol? Explain any two types of open flow messages. **[5]**

3B. What is a SDN controller? List any four important facts about evaluating SDN solutions. **[2]**

3C. Explain HTTP streaming. **[3]**

4A. Explain RTP packet header format. **[3]**

4B. Explain the different scheduling mechanisms that are used to transmit queued packets on the link. **[4]**

4C. Draw a neat diagram and explain a public fiber network architecture. **[3]**

5A. What is transparency in an optical network? What are the different types of transparency? **[2]**

5B. What is multi protocol label switching? What are its applications in an IP network? **[5]**

5C. What are the service classes based on protection? **[3]**

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