Reg. No. | | | | | | | | | | | | |

Question Paper Code : 13290

M.E. DEGREE EXAMINATION, JANUARY 2015.

First Semester

Computer Science and Engineering

CP 7101 – DESIGN AND MANAGEMENT OF COMPUTER NETWORKS

(Common to M.E. Computer Science and Engineering (with Specialization in Networks) and M.E. Biometrics and Cyber Security)

(Regulation 2013)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define Network Management.
2. What is network supportability?
3. How to gather network requirements?
4. What do you mean by flow prioritization?
5. How architectural mapping is done?
6. List any two examples for flow analysis?
7. Define addressing and routing.
8. What are types of privacy issues arise in networking environment?
9. Distinguish between tunneling and bridging.
10. Define packet sniffing.

PART B — (5 × 16 = 80 marks)

11. (a) (i) List out service characteristics and discuss about performance characteristics.

(ii) Based on what all perspectives the requirements differs? Explain for any two perspectives.

Or

(b) (i) In what way network requirements differ from other software project requirements.

(ii) Explain in detail about gathering requirements for any network Project of your own interest.

12. (a) (i) With neat diagram explain Requirement Analysis process.

(ii) How to develop Metric based service provider? Explain in detail about developing service metric.

Or

(b) Discuss in detail about supplemental performance requirements.

13. (a) (i) Explain the reasons to care about network flows in routing.

(ii) Discuss about NetFlow and Flow Reporting

Or

(b) How to prioritize flow? Explain with flow specification Algorithm.

14. (a) (i) Why High-level messages are encapsulated inside the low-level messages? Explain.

(ii) Explain three way handshake protocols in security mechanisms

Or

(b) Discuss about client/server program that uses the socket Interface to send messages over TCP connection

15. (a) (i) In routing discuss about Split Connection Approach?

(ii) How Channel Mapping can be established for Enterprise network?

Or

(b) (i) In routing Architecture bring the importance of Bridges and LAN Switches.

(ii) List and Explain the Limitations of Bridges.
