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SIXTH SEMESTER B.TECH. (ENGINEERING) DEGREE [2014 SCHEME] EXAMINATION, APRIL 2017

Computer Science Engineering

CS/IT 14 604—COMPUTER NETWORKS

Time : Three Hours

Maximum : 100 Marks

Part A

*Answer any **eight** questions.*
Each question carries 5 marks.

1. Write a short note on Bluetooth technology.

2. Draw the process flowchart for CSMA/CA used in wireless LAN and explain.

3. List out the features of wireless LAN and explain it in detail.

4. Explain the CRC error detection mechanism using Generator polynomial.

5. List out the various approaches of quality of service.

6. Explain the congestion control technique in TCP.

7. What are the flags available in TCP header ? Explain.

8. What are the performance issues associated with Transport layer protocols ?

9. Explain in detail about major components of an electronic mail system.

10. Why is data compression necessary for multimedia ?

(8 × 5 = 40 marks)

Part B

*Answer **all** questions.*

1. (a) Explain various layers of OSI reference model with a neat diagram.

Or

(b) What are the common standard Ethernet implementations ? Explain each Ethernet standard with a neat diagram.

2. (a) Describe various Error detection and Error correction methods with suitable example.

Or

(b) Discuss about congestion control algorithms.

Turn over

3. (a) Explain UDP and TCP protocols.

Or

(b) Explain the state transition diagram for TCP connection establishment, data transfer and connection termination.

4. (a) Discuss about the DNS in internet.

Or

(b) Write short notes on World Wide Web.

$(4 \times 15 = 60 \text{ marks})$