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BTech Degree Examination November 2016

Fifth Semester

Information Technology

14ITT51 – COMPUTER COMMUNICATION NETWORKS

(Regulations 2014)

Common to BE Computer Science and Engineering

Time: Three hours

Maximum: 100 marks

Answer all Questions

Part – A ($10 \times 2 = 20$ marks)

1. Distinguish between point-to-point connection and multipoint connection.
2. Draw the graph of Manchester encoding scheme for the data 00110011.
3. What do you mean by forward error correction?
4. Identify the purpose of flow control.
5. Find the class of the following IPv4 addresses
 - i) 120.7.3.100
 - ii) 200.100.15.10
6. How does virtual circuit approach differ from datagram approach?
7. List any two application that can benefit more from the services of UDP.
8. Differentiate between Go-back-N and Selective repeat protocol.
9. Mention the techniques used to improve QoS.
10. List the functionalities of SNMP.

Part – B ($5 \times 13 = 65$ marks)

11. a. Elaborate on any two guided media with its advantages and disadvantages. (13)
(OR)
b. Illustrate the architecture of OSI model with a neat diagram and compare it with TCP/IP protocol suite. (13)
12. a. Describe the frame format, different communication modes and features of HDLC protocol with suitable diagram. (13)
(OR)
b. What do you mean by random access protocol? Explain any two random access protocols with an example scenario. (13)