

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V • EXAMINATION – SUMMER 2013****Subject Code: 150702****Date: 16-05-2013****Subject Name: Computer Network****Time: 10.30 am - 01.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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|------------|---|-----------|
| Q.1 | (a) Explain distance vector routing | 07 |
| | (b) Explain working principle of HDLC | 07 |
| Q.2 | (a) List difference between OSI and TCO/IP model | 07 |
| | (b) Using example explain flow control | 07 |
| | OR | |
| | (b) List difference between Transport layer and Network layer | 07 |
| Q.3 | (a) List demerits of unguided transmission media | 07 |
| | (b) Explain the working principle of bridges | 07 |
| | OR | |
| Q.3 | (a) Explain the working principle of stop and wait protocol | 07 |
| | (b) Explain the working principle of CSMA | 07 |
| Q.4 | (a) Explain working principle of wireless LAN protocols | 07 |
| | (b) Discuss the working principle of UDP | 07 |
| | OR | |
| Q.4 | (a) Explain working principle of limited contention protocols | 07 |
| | (b) Discuss the working principle of TCP | 07 |
| Q.5 | (a) Explain in detail OSPF | 07 |
| | (b) Explain in detail X.25 | 07 |
| | OR | |
| Q.5 | (a) Explain in detail IPV6 | 07 |
| | (b) Explain in detail Virtual LANs | 07 |
