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CD—11—2016

FACULTY OF COMPUTER STUDIES

B.Sc. (NT) (Second Year) (Third Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

NETWORK TECHNOLOGY

(Part I)

(Network Administration)

(Saturday, 19-11-2016)

Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—80

N.B. :— (i) Assume suitable data, if necessary.

(ii) Figures to the right indicate full marks.

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| 1. | Attempt the following : | 20 |
| | (i) Explain concept of networking. | |
| | (ii) Explain concept of ethernet. | |
| | (iii) Explain WAN in detail. | |
| | (iv) What is IP ? Explain use of it. | |
| 2. | (a) Explain TCP/IP reference model. | 8 |
| | (b) Explain concept of 1000 BASE-T cabling. | 7 |
| | <i>Or</i> | |
| | (c) Explain concept of DCE and DTE. | 8 |
| | (d) Explain point-to-point protocol. | 7 |
| 3. | (a) Explain functions of network layer in OSI model. | 8 |
| | (b) Explain concept of packet switching. | 7 |
| | <i>Or</i> | |
| | (c) Explain concept of IP addressing. | 8 |
| | (d) Explain procedure to build WAN link in a Lab. | 7 |
| 4. | (a) Explain concept of PCI's logic. | 8 |
| | (b) Explain the concept of synchronization in WAN. | 7 |

P.T.O.

Or

- (c) Explain concept of SAMBA. 8
- (d) How to provide DNS to real domains ? 7
- 5. Write short notes on the following (any *three*) : 15
 - (a) Hardware devices for networking
 - (b) Network connectivity
 - (c) Internet layer in TCP/IP
 - (d) Routing
 - (e) History of Ethernet.