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Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam-2079, Bhadra/Ashwin

Program: **Diploma in Computer Engineering** Full Marks: 80 Year/Part: Ш/ (2018) Pass Marks: 32 Subject: Time: 3 hrs. Computer Networks Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt any TEN questions. [2+6] What is computer network? Explain OSI model. What is a network protocol? Differentiate between a [4+4] 2. connection oriented and connectionless services. Explain IEEE 802.3 and IEEE 802.4. Explain CSMA/CD [4+4] 3. protocol. [4+4] What are transmission media? Explain any two types. 4. Discuss flow control in data link layer arjun 00.com.np What is channel bandwidth? Explain the concept of sub- [2+4+2] 5. netting. Define inter-network. Explain transaction of IPV4 to IPV6. Explain how packets are [2+6] 6. formed and functions of network layer. [2×4] Write short notes on: (any TWO) 7. Firewall b. DNS a. www d. VPN Explain two protocols of transport layer? Why does need flow [4+4]8. control in transport layer? Explain client server model. Why security is a necessity in the [3+5] 9. field of computer networks? Discuss. How confidentiality, integrity and availability is maintained in [8] 10. computer network? Classify computer networks. Write down the differences [5+3] 11. between repeater and router.

Good Luck!

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