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Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam-2077, Chaitra

Program: Diploma in Computer/IT Engineering
Year/Part: II/II (2018 New Course)
Subject: Data Communication
Full Marks: 80
Pass Marks: 32
Time: 3 hrs.

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 Eight questions.

1. What is network topology? Explain cecular wireless communication.	[2+8]
2. Discuss data transmission. Describe the types of transmission impairments.	[2+8]
3. What is signal encoding? Differentiate Analog and digital transmission.	[2+8]
4. Explain Line Of Sight (LOS) propagation. Compare guided and unguided	[4+6]
media.	
5. Discuss full duplex system with examples. Describe digital multiplexing.	[2+8]
6. What is wireless propagation? Compare multiplexing and multiple access	[2+8]
technique.	
7. State sampling theorem. Describe the block diagram of PCM System in details.	[4+8]
8. What are the advantages of PCM Also draw the block diagram of PCM	[6+4]
generator. Explain E1 and T1 carrier.	
9. What is electro mechanical switching? Explain circuit and packet switching with	[2+8]
suitable examples.	

10. Write short notes on: (Any Two)

[2x5=10]

- a) Twisted pair and coaxial cable
- b) Quantization
- c) Circuit switching

Good Luck!

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