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| **Department of Electrical Engineering****Assignment****Date: 20/04/2020****Course Details** |
| **Course Title:** |  Advance Computer Networks | **Module:** |  |
| **Instructor:** |  | **Total Marks:** | 30 |
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**Student Details**

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| **Name:** |  | **Student ID:** |  |

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| Q1. | (a) | Explain Physical layer services and Transmission Impairments? | Marks 6 |
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| (b) | Express a period of 1 ms in microseconds, and express the corresponding frequency in kilohertz and A sine wave is offset one-fourth of a cycle with respect to time zero. What is its phase in degrees and radians? | Marks 4 |
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| Q2. | (a) | Explain the classification of digital to digital conversion? Difference between data element and signal element? | Marks 6 |
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| (b) | We want to digitize the human voice. What is the bit rate, assuming 7 bits per sample? | Marks 4 |
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| Q3. | (a) | Explain the responsibilities of different layers of TCP/IP in detail? | Marks 6 |
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| (b) | Convert the following data 01110010 to Manchester coding and Bipolar AMI? | Marks 4 |
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