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| 1075717_549909255068252_805887821_n.jpg | | **http://upload.wikimedia.org/wikipedia/commons/9/9c/Inu_peshawar_logo.gifIqra National University, Peshawar**  **Department of Electrical Engineering**  **Summers** | | | | | | | | | | |
| **Course Code:** | | ET 273 | |  | | | | **Course Title:** | | Power Transmission & Distribution | | |
| **Prerequisite:** | | Electrical Network Analysis | | | | |  | **Instructor:** | | Engr. Sanaullah Ahmad | | |
| **Module:** | | 7 | **Program:** | | BEE | **Total Marks:** | | | 30 | **Time Allowed:** |  | |

Note: Attempt all questions.

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| Q1. |  | Briefly Explain.  The Main components of overhead transmission line? Shunt and self capacitance of transmission line? | Marks 10  CLO 1 |
| Q2 |  | In a 33 kV overhead line, there are three units in the string of insulators. If the  capacitance between each insulator pin and earth is 11% of self-capacitance of each insulator, find  (i) the distribution of voltage over 3 insulators and (ii) string efficiency. | Marks 10  CLO 2 |
| Q3 |  | **Illustrate** the Sag in an Overhead lines? **Calculate** an appropriate Expression with a label diagram for Sag in Overhead Lines When Supports are at equal Levels? Also discuss the effect of wind and Ice on sag? | CLO 1  Marks 10 |