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| **Department of Electrical Engineering****Mid Term Exam****Date: 30/11/2020****Course Details** |
| **Course Title:** |  High Voltage Engineering | **Module:** |  |
| **Instructor:** |  Engr. Shayan Tariq Jan | **Total Marks:** | 30 |
|  |  | **Time:** 3 Hrs |  |

**Student Details**

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

Note: Plagiarism of more than 20% will result in negative marking.

Similar answers of students will result in cancellation of the answer for all parties.

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| Q1. | (a) | In High Voltage Engineering what do the following terms stand for. Explain them with examples 1. Dipole
2. Dielectric Strength
3. Photo Ionization
4. Thermal Stress
5. Erosion
 | Marks 10 |
| Q2. | (a)(b) | What are the factors that affect liquid insulation? Explain their effect in detail on liquid insulationState the different techniques used for liquid insulation purification. Explain one in detail with diagram. | Marks 10 |
| Q3. | (a)(b) | High voltages and currents are measured with 2 main methods, Direct Method and Indirect Method. What are the different techniques used for them (state which method they belong to)?Explain with detail and diagram one technique each from the two methods. | Marks 10 |