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| **Department of Electrical Engineering**  **Assignment**  **Date: 20/04/2020**  **Course Details** | | | |
| **Course Title:** | Electric Power Distribution and Utilization | **Module:** | 4th (B Tech) |
| **Instructor:** |  | **Total Marks:** | 30 |
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**Student Details**

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

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| **Q1.** | **(a)** | It is often difficult to draw a line between the power transmission and power distribution systems. However, what are the different factors on the basis of which a power distribution system can be differentiated from a power transmission system? Explain briefly. | **Marks 05** |
| **(b)** | Underground electrical system cannot be used for very large voltages. Justify this statement. | **Marks 05** |
| **Q2.** | **(a)** | Now-a-days, electrical energy is generated, transmitted and distributed in the form of alternating current. Justify this statement. | **Marks 05** |
| **(b)** | It is evident from comparison that both overhead and underground system has its own advantages and disadvantages. However, what are the few factors on the basis of which overhead system may be preferred over underground system? | **Marks 05** |
| **Q3.** | **(a)** | Ring main scheme of connection is more reliable as compared to radial system but is less reliable as compared to interconnected system. Justify this statement. | **Marks 05** |
| **(b)** | Why is it important requirement of a good distribution system that voltage variations at consumer’s terminals should be as low as possible? | **Marks 05** |