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| **Subject** | **Physics** | **Session** | **Sep-Dec 2020** |
| **Subject Code** | **18BSPH02** | **Electrostatics** | |
| **Assignment #** | **2** |

1. Explain the terms, (a) electric dipole (b) electric displacement (c) electric polarization (d) electric potential

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| 2. Derive an expression for internal field in case of one-dimensional array of atoms in dielectric solids. |

3. Mention the applications of dielectric materials? An air filled parallel plate capacitor has a capacitance of 1.5PF, if the separation between the plates is doubled and wax is inserted between them, the capacitance increases to 3PF. Calculate the dielectric constant of wax.