**Basic Electrical and Electronics Engineering**

**Experiment No : 06**

***Rectifier Circuit***

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**Signature of teacher-in-charge : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Aim:** | To design Half wave and full wave rectifier. |
| **Apparatus:** | Online simulation tools (Suggested Tinkercad) |
| **Theortical Analysis:** | ***Half Wave Rectifier***  ***Circuit Diagram***    Fig LCR series resonance  ***Theoretical Calculations:***  RMS and Average Value of a voltage (derivation)      ***Observation waveform*** |
| ***Full wave rectifier***  Bridge Rectifier    ***Theoretical Calculations:***  RMS and Average Value of a voltage (derivation)      ***Observation waveform***    ***Conclusion:***   * The circuits are made using an online simulation tool, Tinkercad * This experiment helped us study the waveforms generated by a half wave and full wave (bridge) rectifier by implementing the circuit and making measurements using an oscilloscope. |

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