# B.Sc Electronics III semester (CBCS) Pattern

## Question bank for Practical Examination

1. a) Construct and study a half wave rectifier, also determine ripple factor.
   b) Construct and study a full wave rectifier, also determine ripple factor.
   c) Construct and study a bridge rectifier, also determine ripple factor.
2. a) Determine ripple factor of a full wave rectifier with series inductor filter.
   b) Determine ripple factor of a full wave rectifier with shunt capacitor filter.
   c) Determine ripple factor of a full wave rectifier with L-section filter.
   d) Determine ripple factor of a full wave rectifier with $\pi$-section filter.
3. a) Study voltage regulator using IC-78XX.
   b) Study voltage regulator using IC-79XX.
4. Construct a colpitt's oscillator and determine the frequency.
5. Construct a RC coupled phase shift oscillator and determine the frequency.
6. Determine time period and duty cycle of an Astable multivibrator.
7. a) Using simulation software construct a rectifier circuit.
   b) Using simulation software construct a RC coupled amplifier and study the frequency response.
   c) Using simulation software construct a Wien's bridge oscillator.
   d) Using simulation software construct a Colpitt's oscillator.
   e) Using simulation software construct a RC phase shift oscillator.
   f) Using simulation software construct an Astable multivibrator.

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