



12. (a) Formulate the analysis of chopper fed DC motor and obtain its steady state solution for various operating condition. (16)

Or

- (b) Explain the analysis of coupled system with an example and obtain its dynamic equation for various operating interval. (16)
13. (a) Write a PSPICE program to obtain the frequency response over a frequency range from 100 Hz to 100 KHz of a series RLC circuit connected in series with an AC voltage source. (16)

Or

- (b) Explain the different types of transient sources with its waveform, statement, general form and model parameter of source with example. (16)
14. (a) Explain the Fourier analysis of a circuit using PSPICE with example. (16)

Or

- (b) Discuss the features of PSPICE Schematic Capture and libraries in detail. (16)
15. (a) Write a PSPICE program to simulate the power factor of a single phase full bridge rectifier. (16)

Or

- (b) Write a PSPICE program to simulate a voltage source inverter and calculate the harmonic distortion of the output voltage. (16)