Assignment 1

1. a. Sketch the equivalent circuit of the given waveforms.

b. Calculate the average power dissipated in the circuit.

c. Determine the effective voltage and current of the circuit.

2. a. Explain the operation of the given circuit diagram.

b. Calculate the output voltage for the given input voltage.

3. a. Describe the principle of the given circuit diagram.

b. Calculate the input impedance for the given output impedance.

4. a. Explain the working principle of the given circuit diagram.

b. Calculate the output power for the given input power.

5. a. Sketch the equivalent circuit of the given waveform.

b. Calculate the average power dissipated in the circuit.

6. a. Explain the operation of the given circuit diagram.

b. Calculate the output voltage for the given input voltage.

7. a. Describe the principle of the given circuit diagram.

b. Calculate the input impedance for the given output impedance.

8. a. Explain the working principle of the given circuit diagram.

b. Calculate the output power for the given input power.

9. a. Sketch the equivalent circuit of the given waveform.

b. Calculate the average power dissipated in the circuit.

10. a. Explain the operation of the given circuit diagram.

b. Calculate the output voltage for the given input voltage.

11. a. Describe the principle of the given circuit diagram.

b. Calculate the input impedance for the given output impedance.

12. a. Explain the working principle of the given circuit diagram.

b. Calculate the output power for the given input power.

13. a. Sketch the equivalent circuit of the given waveform.

b. Calculate the average power dissipated in the circuit.

14. a. Explain the operation of the given circuit diagram.

b. Calculate the output voltage for the given input voltage.

15. a. Describe the principle of the given circuit diagram.

b. Calculate the input impedance for the given output impedance.

16. a. Explain the working principle of the given circuit diagram.

b. Calculate the output power for the given input power.