

**MANDATORY Things you should collect for MID Preparations:**

- 1) All the CT Questions before MID in all the other sections.
- 2) Assignments provided in all the sections on the MID Topic.

**Reference Books: Sadiku (5th Edition)**

**Question wise Syllabus for MID with Mark Distribution and Chapter wise topic**

SL No .	Topics	From where to read	Marks
1.	Chapter 1: a) Concept about charge, current & voltage; b) Charge, current relation and math; c) Voltage, energy relation and math; d) Power, energy relation and math; e) Different Math related Graph of current vs. time, charge vs. time, power vs. time etc.; f) Energy/Power Conversion and related Math	Section 1.1, 1.2, 1.3, 1.4, 1.5, 1.6	8
2.	Chapter 2: a) KVL, KCL and related math (KVL, KCL related Maths include Dependent and Independent Sources both!) b) Equivalent Resistance, VDR, CDR and related math  <b>N:B: Please note that the Wye-Delta concept is not in the present syllabus!</b>	Section 2.1, 2.2, 2.3, 2.4, 2.5, 2.6	14
3.	Chapter 3: a) Node Analysis and related math (Circuit with both dependent and independent sources) b) Mesh analysis and related math (Circuit with both dependent and independent sources)  <b>N:B: Please note that the supernode and supermesh concept is not in the present syllabus!</b>	Section 3.1, 3.2, 3.4	8

## **Math to Practice from the Book for Exam**

### **Chapter 1:**

#### **Example:**

1.2, 1.3, 1.4, 1.5, 1.7

#### **Practice Problem:**

1.2, 1.3, 1.4, 1.5, 1.7

#### **Problem:**

1.2(from a to e), 1.3 (a, b & c), 1.6, 1.7, 1.8, 1.9, 1.11, 1.12, 1.13, 1.16, 1.18, 1.19, 1.20

### **Chapter 2:**

#### **Example:**

2.3, 2.5, 2.6, 2.7, 2.9, 2.10, 2.12, 2.16

#### **Practice Problem:**

2.3, 2.5, 2.6, 2.7, 2.9, 2.10, 2.12

#### **Problem:**

2.15, 2.16, 2.18, 2.22, 2.23, 2.26, 2.30, 2.31, 2.32, 2.35, 2.36, 2.37, 2.38, 2.39, 2.40, 2.41(\*\*),  
2.42, 2.43, 2.44(\*\*), 2.45, 2.46, 2.47(\*\*)

### **Chapter 3:**

#### **Example:**

3.1, 3.2, 3.5, 3.6

#### **Practice Problem:**

3.1, 3.2, 3.5, 3.6

#### **Problem:**

3.2 to 3.9, 3.12, 3.14, 3.19, 3.38, 3.40, 3.41, 3.42, 3.43, 3.46, 3.48, 3.51, 3.58