Course No: SWEN2301
Course Title: Electronics Principles
Date: 26/11/2018
No. of Questions: (4)
Time: 1hours
Using Calculator (Yes)

University of Palestine

Second Midterm Exam
2018-2019
Total Grade:30

Instructor Name: Dr. Alaa AbuZaiter
Student No.: _____
Student Name: _____
College Name: Engineering
Dep. / Specialist: Software Eng.
Using Dictionary (No)

Question One: 8 Marks

A) Defined the followings: (4 Marks)

a) p-n Junction:

b) Diode Array:

c) Clamper:

d) Inductor:

B) What are the differences between **Half Wave Rectifier** and **Full Wave Rectifier**? (4 Marks)

Half Wave Rectifier	Full Wave Rectifier

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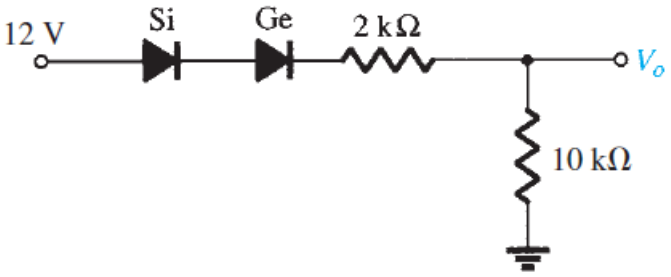
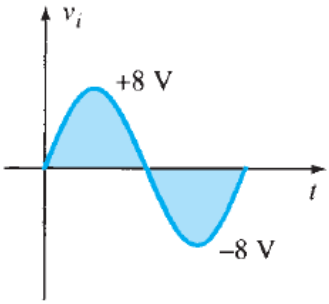
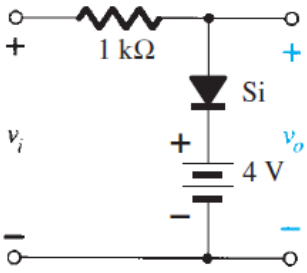
Question Two: (8 Marks)

1. Find **Vo**, $\mathbf{I_{R1}}$ and $\mathbf{I_{R2}}$ for the network in the Figure? (4 Marks)

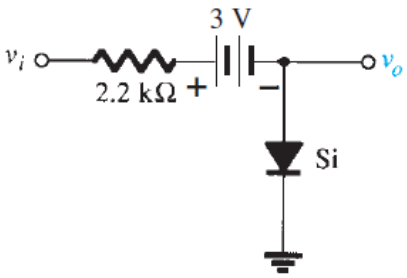


2. Sketch the ***Vo*** for each network in the Figure? The diode is ideal diode (4 Marks)





(a)



(b)

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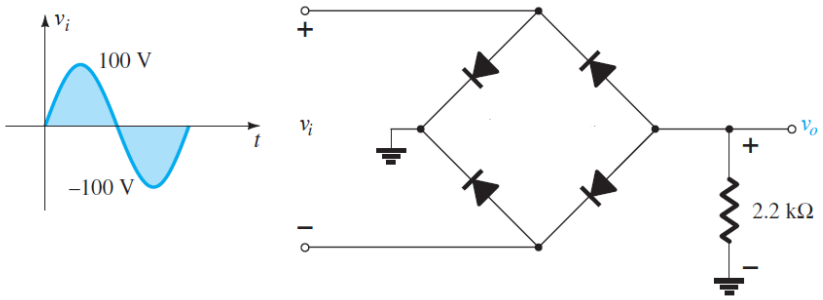
Question Three: (10 Marks)

1. Draw the ***Vo*** for the network of the Figure?
2. Determine the maximum current through $\mathbf{R_L}$?
3. Find the $\mathbf{V_{DC}}$?
4. If we add a capacitor to smooth the DC output voltage. Find the value of the **capacitor** (Frequency F = 50 Hz)?



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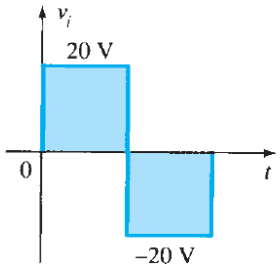
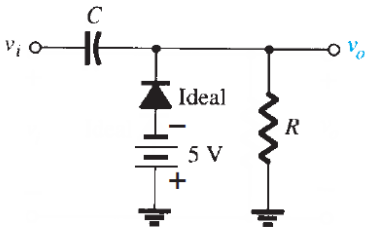
Question Four: (4 Marks)

1. Sketch (Draw) ***Vo*** of the network shown in the Figure. **The diode is ideal diode.**





End of Questions
Good Luck