

Course No: SWEN2301
Course Title: Electronics Principles
Date: 20/10/2018
No. of Questions: (3)
Time: 1 hours
Using Calculator (Yes)

University of Palestine



First 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:

12 Marks

A) Choose the correct answer:

1. The _____ consists of a pair of conductors separated by a dielectric (insulator).
a) Voltage b) Capacitor c) Inductors d) All of the above
 2. The total resistance of resistors in _____ is equal to the sum of their individual resistances.
a) Series b) Parallel c) Series and parallel d) None of all
 3. The unit for measuring the inductance is _____.
a) Ohms(Ω) b) Farads (F) c) Henry (H) d) None of the above
 4. The material that has the ability to conduct electricity is called _____.
a) Plastic b) Semiconductor c) Isolated d) Conductor
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B) b) Defined the followings: (4 Marks)

a) Resistors:

b) P-type material:

c) Zener Diode:

d) Semiconductor:

C) What are the types of material? and what are the main differences between them?
(4 Marks)

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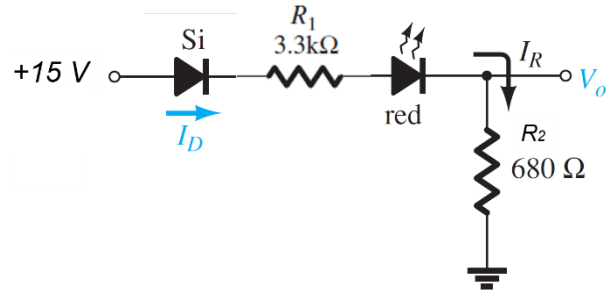
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Question Two:

(9 Marks)

1. Determine V_o and I_D in the circuit as show in Figure. ($V_{LED} = 1.8V$)
2. Find the V_{R1} and V_{R2} ?



3. **List three** of the most common materials that used in the development of semiconductor devices?

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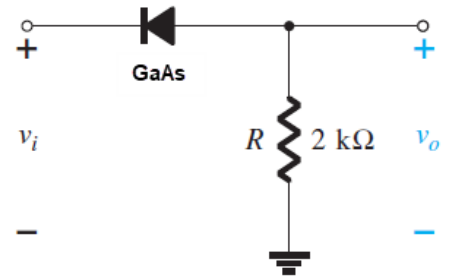
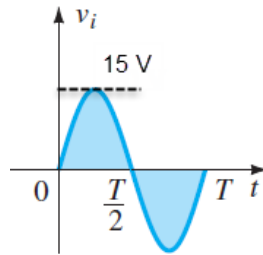
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Question Three:

(9 Marks)

1. The circuit show in the figure, Find:

- Sketch the output V_o ?
- determine the **dc** level of the output?
- If the ideal diode is replaced determine the **dc**.



2. What is the **temperature effect** on the **conductor** material and **semiconductor** material?

End of Questions

Good Luck