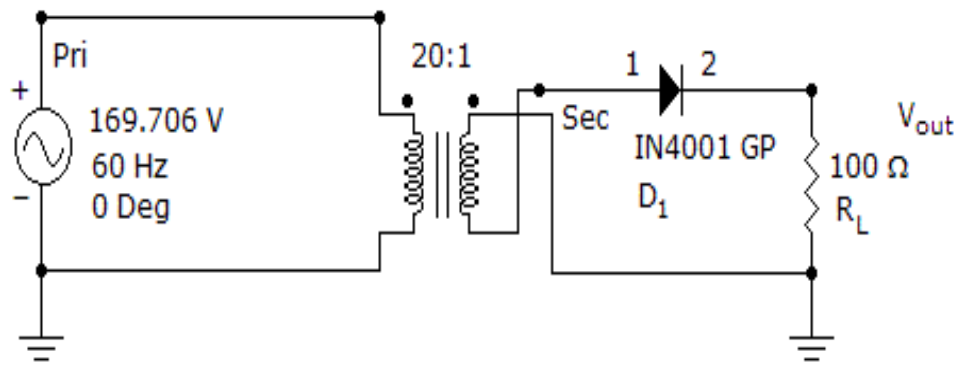


Course No: SWEN 2301  
 Course Title: ELE Principles.  
 Date: 11 / 01 / 2017  
 No. of Questions: 6 + 1 Incomplete  
 Time: 120 min.  
 Using Calculator (Yes)

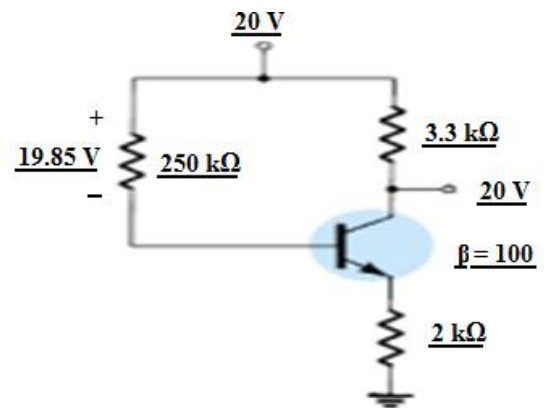
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 Final Exam  
 1<sup>st</sup> Term 2016/2017  
 Total Grade: 50

Instructor Name: Eng. M. Timraz  
 Student No.: \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 College Name: Engineering  
 Dep. / Specialist: Software Eng.  
 Using Dictionary (No)

**Q1/A): What is the peak output voltage for this half-wave rectifier? (7.5/50)**



**Q1/B): Based on the readings provided in Fig., determine  $I_B$ ,  $I_C$ , and  $V_{CE}$ ? (7.5/50)**



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Time: 120 min.  
Using Calculator (Yes)

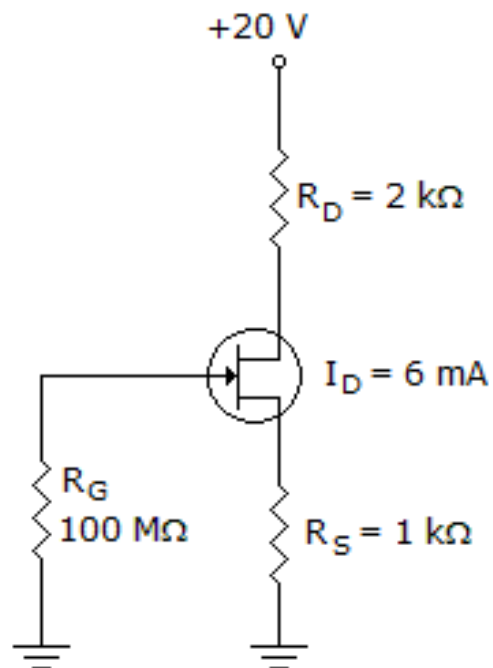
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Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
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Using Dictionary (No)

**Q2): Refer to figure given below. Calculate the value of  $V_{DS}$ ? (05/50)**



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Time: 120 min.  
Using Calculator (Yes)

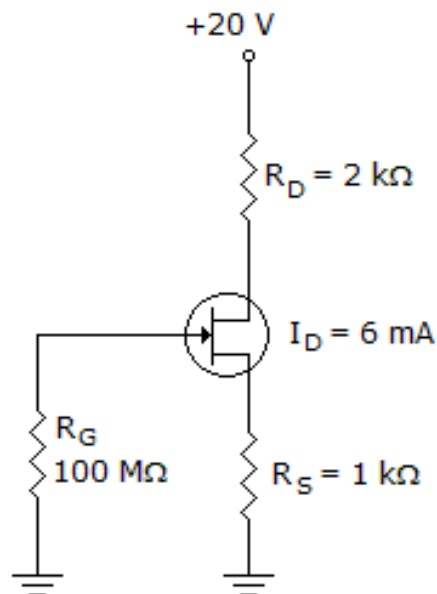
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Student Name: \_\_\_\_\_  
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Dep. / Specialist: Software Eng.  
Using Dictionary (No)

**Q3): Refer to figure given below. Determine the value of  $V_{GS}$  (05/50)**



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Course Title: ELE Principles.  
Date: 11 / 01 / 2017  
No. of Questions: 6 + 1 Incomplete  
Time: 120 min.  
Using Calculator (Yes)

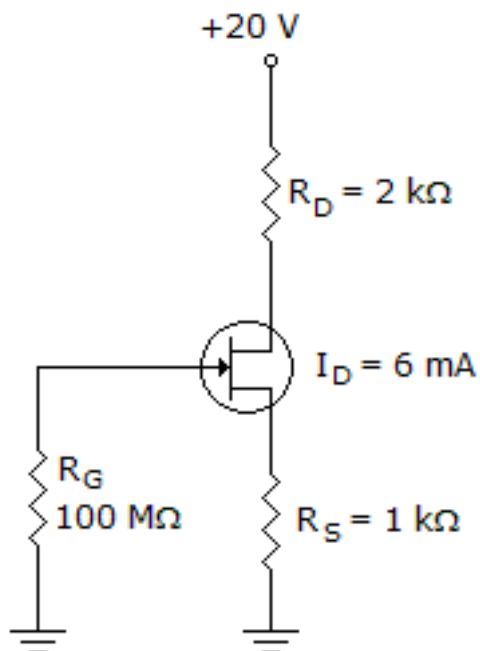
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Using Dictionary (No)

**Q4): Refer to figure show below. Calculate the value of  $V_D$ . (05/50)**



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Course Title: ELE Principles.  
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No. of Questions: 6 + 1 Incomplete  
Time: 120 min.  
Using Calculator (Yes)

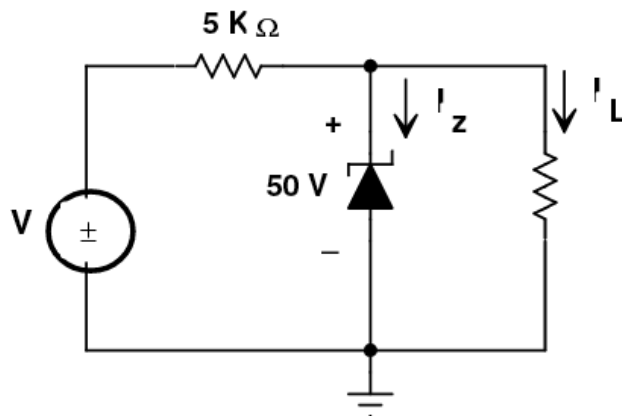
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Student Name: \_\_\_\_\_  
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Using Dictionary (No)

**Q5): Determination of range of  $V$  ( $V_{min}$  and  $V_{max}$ ) for the given circuit diagram shown? (10/50)**



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No. of Questions: 6 + 1 Incomplete  
Time: 120 min.  
Using Calculator (Yes)

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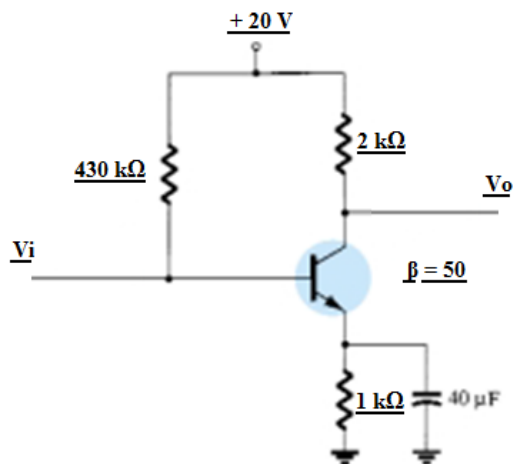
Final Exam  
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Total Grade: 50

Instructor Name: Eng. M. Timraz  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: Engineering  
Dep. / Specialist: Software Eng.  
Using Dictionary (No)

**Q6): For the emitter bias network of the following Fig., determine: (10/15)**

- (a)  $I_B$ .
- (b)  $I_C$ .
- (c)  $V_{CE}$ .
- (d)  $V_C$ .
- (e)  $V_E$ .
- (f)  $V_B$ .
- (g)  $V_{BC}$ .

**Where  $\beta = 50$ .**

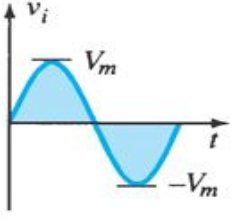
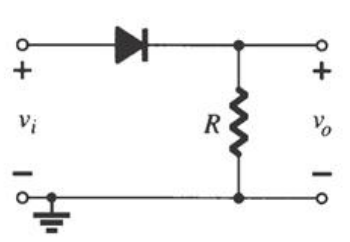
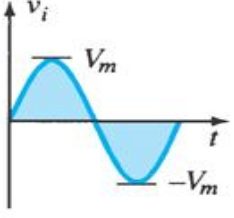
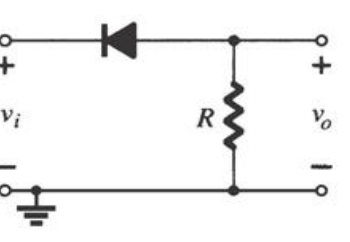
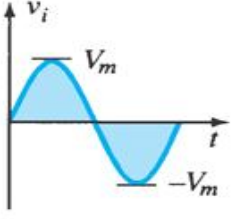
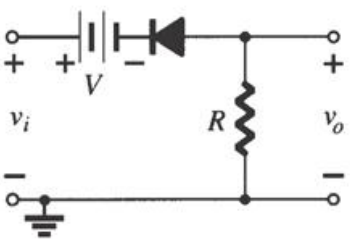
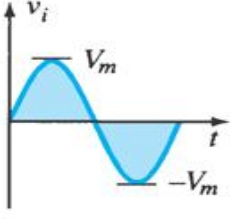
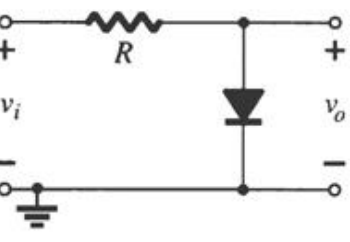
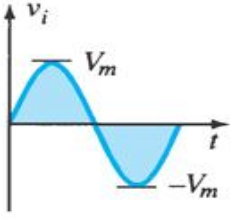
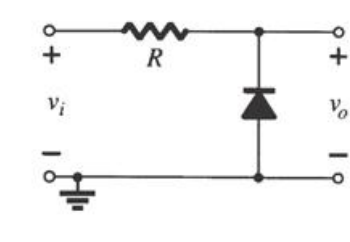


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 Using Dictionary (No)

For 2<sup>nd</sup> Midterm Incomplete Exam (15/15) لطلاب غير المكتمل "النصفي الثاني"  
 (Q7/A): Draw the output signal for each figure below. (10/15)

No.	Input	Circuit	Output
1.			
2.			
3.			
4.			
5.			

Course No: SWEN 2301  
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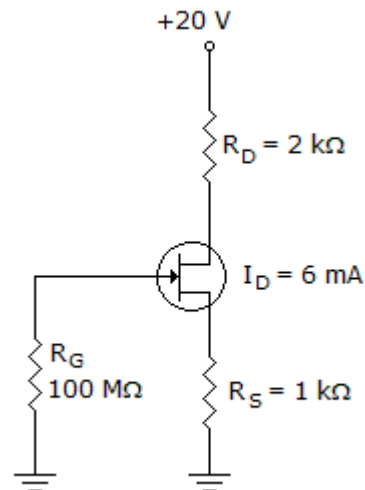
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College Name: Engineering  
Dep. / Specialist: Software Eng.  
Using Dictionary (No)

**(Q7/B) Refer to figure shown below. What is the value of  $I_G$ ? (05/15)**



Good Luck.