Kingdom of Saudi Arabia
Ministry of Education
College of Computer
Department of Computer Engineering

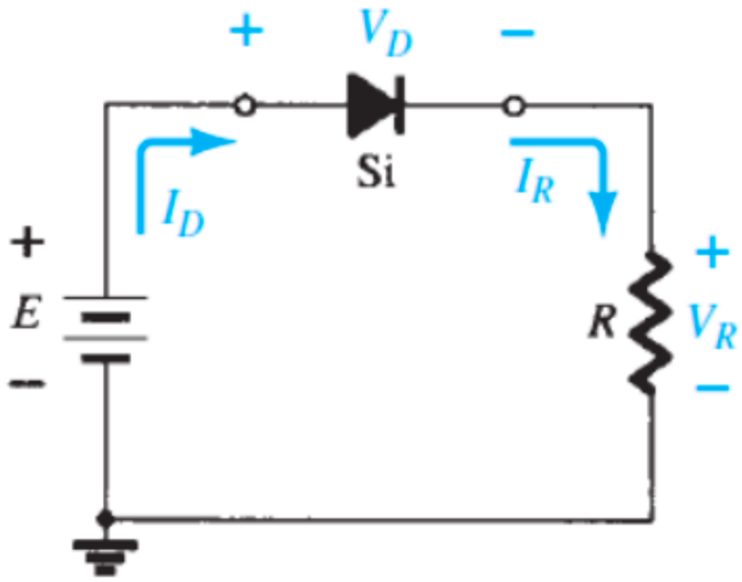
Course Code and Name : Electronics Lab COE214
Mid Exam
472 Date: 6-5-2026 Duration:1hour

| Student Name: | Student ID: |
|---|---|

The exam starts here

Question 1 :

a) Make the circuit on a breadboard (5)



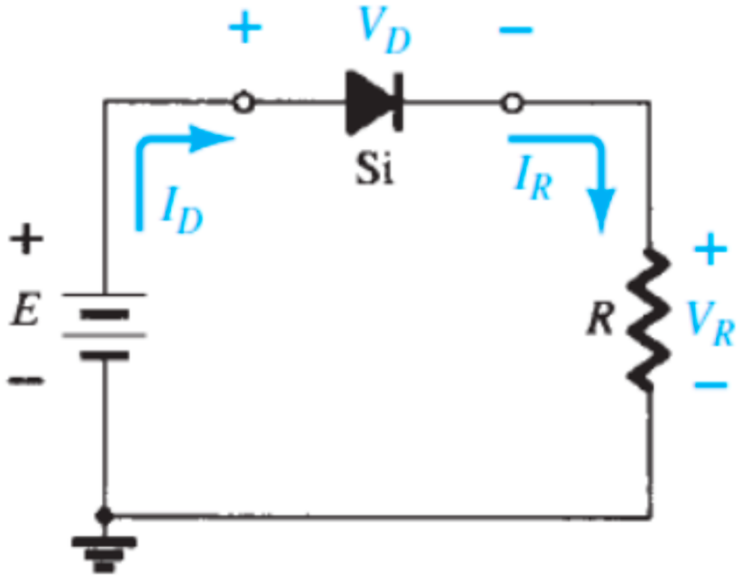

b) Complete the following table , Assume R = 1 kΩ (10)

| Type | Theoretical | | Measured | |
|---|---|---|---|---|
| E(v) | 0.3V | 10V | 0.3V | 10V |
| $V_D$ | | | | |
| $V_R$ | | | | |
| $I_D$ | | | | |

Question 2 :

a) For the circuit shown in Figure 1, assume that E = 8V , R = 2.2 kΩ .
Calculate the $V_D$ , $V_R$ , $I_D$ (5)

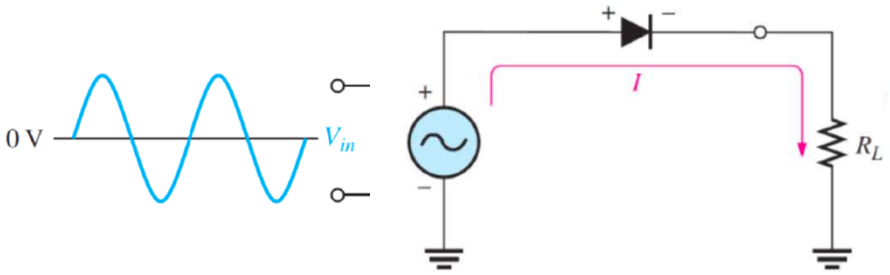
b) Repeat part (A) when the diode is connected in reverse bias. (5)




Question 3 :

For each of the following circuits, determine the output voltage $V_O$ (using the oscilloscope), where $V_{input}$ = 5V (5)

a)




b)

