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EE 102 Lab

Quiz

Jan-May 2014

Date: 8/3/2014

Time Limit: 45 Minutes

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Roll Number: 130108030

Lab day/session: Tuesday Forenoon

This exam contains 6 pages and 17 questions. The marks for each question is mentioned in the brackets. Until specified, all circuit elements are to be considered ideal.

1. (1 point) For circuit having parallel Zener diodes as shown in Figure (1a), the value of V is

A. 6 V

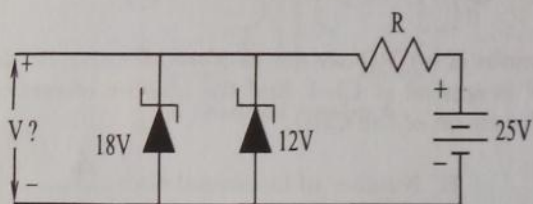
B. 12 V

☒ C. 18 V

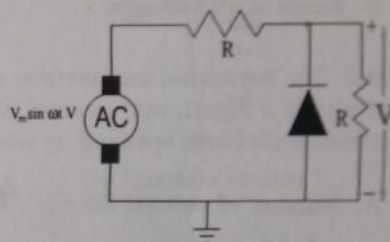
D. 25 V

$25 - IR = V$

Figure 1



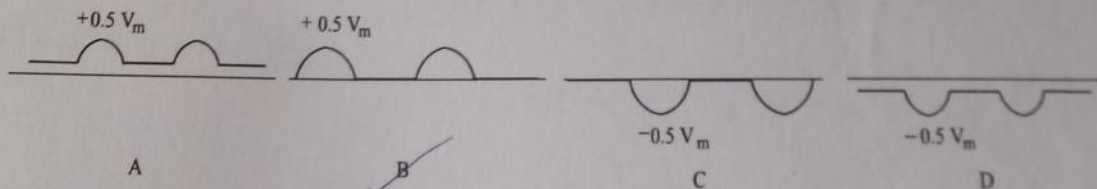
(a) Question number 1



(b) Question number 2 and 3

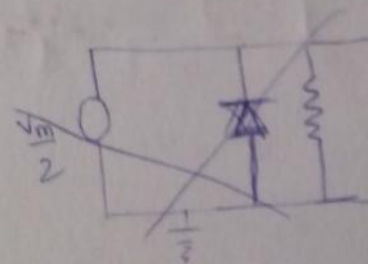
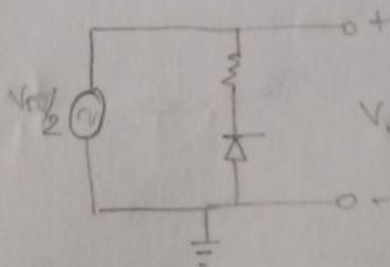
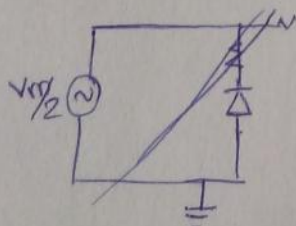
2. (1 point) For the circuit shown in Figure (1b), the output voltage, V_o , for a sinusoidal input with peak voltage V_m is

Figure 2: Answer for Question 2



3. (1 point) For the circuit shown in Figure (1b), draw below the series diode clipper circuit whose output is same as that identified for Question 2

Ans:



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