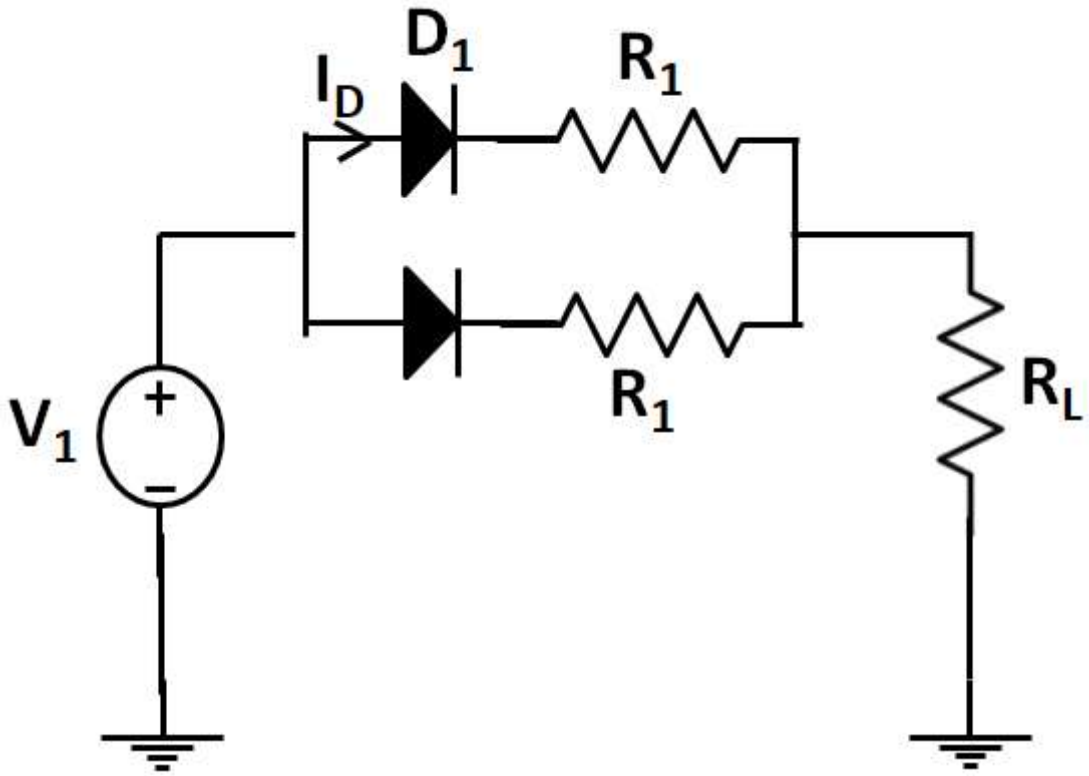
Started on	Monday, 13 June 2022, 8:53 PM
State	Finished
Completed on	Monday, 13 June 2022, 9:03 PM
Time taken	10 mins 8 secs
Grade	**4.00** out of 5.00 (**80**%)

Question 1

Correct

Mark 1.50 out of 1.50

Find the current I_D (in mA) flowing through the diode D1. Given V_1=29 V, R_1=5.6 kΩ, R_L=4.3 kΩ and the diodes are made of silicon and similar V-I characteristics. The cut-in voltage of the diode is 0.7 V.



Answer: 2.008

The correct answer is: 1.99

Question 2

Correct

Mark 1.50 out of 1.50

A current of 16 mA flows through an inductor of value 100 mH. The maximum energy (in μJ) that can be stored in the inductor is 12.8 .

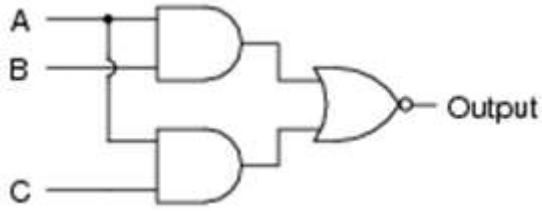
The correct answer is: 12.80

Question 3

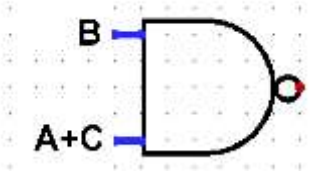
Incorrect

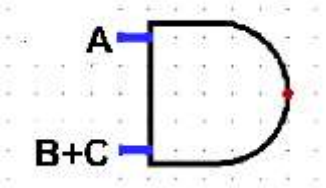
Mark 0.00 out of 1.00

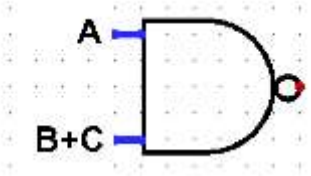
Which of the following gates best represent the logic circuit shown in figure below?

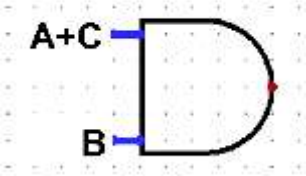


Select one:



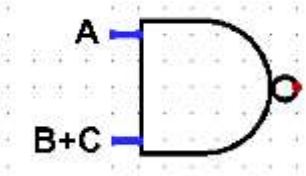






Your answer is incorrect.

The correct answer is:

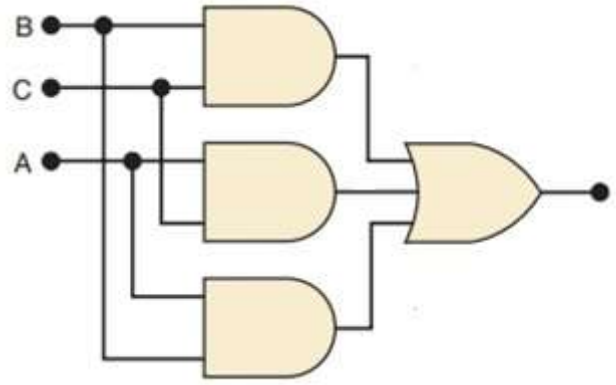


Question 4

Correct

Mark 1.00 out of 1.00

Which of the following expression represents the output of the logic circuit shown in Figure below.



Select one:

- A+B+C
- (AB)(BC)(CA)
- AB+BC+CA ✓
- ABC+BCA

Your answer is correct.

The correct answer is: AB+BC+CA