Assignment 11

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Note: If you have any doubts/queries regarding this quiz, please ask it in the forum well before the submission deadline. We will be happy to answer your queries.

1) COMMON DATA FOR Q.1 TO Q.7:

Consider the figure shown below:

![Circuit Diagram]

The waveform of \( V_1 \) is

a. Triangular
b. Square
c. Pulse train
d. Sinusoidal

No, the answer is incorrect.
Score: 0
Accepted Answers:
b.
2) **The waveform of** $V_2$ **is**

   a. Triangular
   b. Square
   c. Pulse train
   d. Sinusoidal

   ![Options](148x774)

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   a.

3) **How much is the peak-to-peak value of** $V_2$ **(in V)?**

   ![Input Field](29x774)

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   (Type: Numeric) 20

4) **How much is the peak-to-peak value of** $V_2$ **(in V)?**

   ![Input Field](29x774)

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   (Type: Numeric) 20

5) **How much is the slope of the triangular waveform generated (in V/s)?**

   ![Input Field](29x774)

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   (Type: Numeric) 3

6) **What is the frequency of** $V_1$ **or** $V_2$ **(in Hz)?**

   ![Input Field](29x774)

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   (Type: Numeric) 0.075

7) **Which resistance in the circuit can be changed to change the frequency without changing the peak-to-peak value of any generated waveform?**

   a. $R_1$
   b. $R_2$
   c. $R_3$
   d. Any of the above
   e. None of the above

   ![Options](148x774)
8) COMMON DATA FOR Q.8 TO Q.12:

This circuit shows a 555 timer connected as an astable multivibrator.

Peak-to-peak value of \( V_c \) is (in V)?

[Please enter only the numeric value without any unit.]

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 5

9) When \( V_c \) is increasing then \( V_0 \) is?

a. High
b. Low

c. d. e.

No, the answer is incorrect.
Score: 0
Accepted Answers:

10) Calculate the ON (high) time of \( V_0 \) (in seconds)

[Please enter only the numeric value without any unit.]

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 0.65, 0.75

11) Calculate the OFF (low) time of \( V_0 \) (in seconds)

[Please enter only the numeric value without any unit.]

No, the answer is incorrect.
Score: 0
Accepted Answers:
12) Calculate the frequency of $V_o$ (in Hz)

[Please enter only the numeric value without any unit.]

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 0.36, 0.46

13) For the given figure, calculate the time period of $V_o$ (in seconds)

[Please enter only the numeric value without any unit.]

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 10, 12

14) The given figure is of a monostable multivibrator. The forward drop of is 0.7 V. Estimate the pulse width of this circuit (in seconds)

[Please enter only the numeric value without any unit.]

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 3.5, 4