

Unit 2 - Week 0

Course outline

How does an NPTEL online course work?

Week 0

Quiz : Assignment 0

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Assignment Solutions

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Assignment 0

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

Due on 2020-09-14, 23:59 IST.

- 1) In a BJT,
- $I_c = I_e + I_b$
- $I_b = I_e + I_c$
- $I_e = I_c + I_b$
- $I_e = I_c - I_b$

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $I_e = I_c + I_b$

- 2) What would be the output of the following C program? 1 point

```
1 #include<stdio.h>
2
3 main()
4 {
5     int x = 1;
6     float y = x>>2;
7     printf( "%f", y );
8
9
10 }
```

- 1
- 0
- 0.5
- 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
0

- 3) A 5% tolerance 1KOhm resistor value lies between 1 point

- 995 and 1005 ohms
- 950 and 1050 ohms
- 975 and 1025 ohms
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
950 and 1050 ohms

- 4) To represent a decimal number -1048500 as signed binary, the minimum number of bits required is: 1 point

- 20 bits
- 19 bits
- 32 bits
- 21 bits

No, the answer is incorrect.
Score: 0

Accepted Answers:
21 bits

- 5) If a capacitor of 1uF, with initial voltage of 1V, is charged with a constant current 1A, the voltage across the capacitor after 1 microsecond would be 1 point

- 1V
- 0V
- 2V
- 10V

No, the answer is incorrect.
Score: 0

Accepted Answers:
2V

- 6) 500 mAh is: 1 point

- 5C
- 0.5C
- 18C
- 1800C

No, the answer is incorrect.
Score: 0

Accepted Answers:
1800C

- 7) A sine wave of 100 Hz is fed to a bridge rectifier. The frequency of the output from the bridge rectifier is: 1 point

- 100 Hz
- 50 Hz
- 200 Hz
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
200 Hz

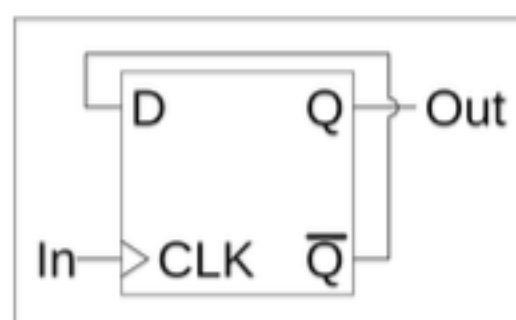
- 8) A microprocessor is 1 point

- A CPU on a single chip
- A computer on a single chip
- A small processor
- A very small processor

No, the answer is incorrect.
Score: 0

Accepted Answers:
A CPU on a single chip

- 9) If a rectangular waveform of a certain duty cycle and frequency is fed to the following circuit, the output of the circuit has: 1 point

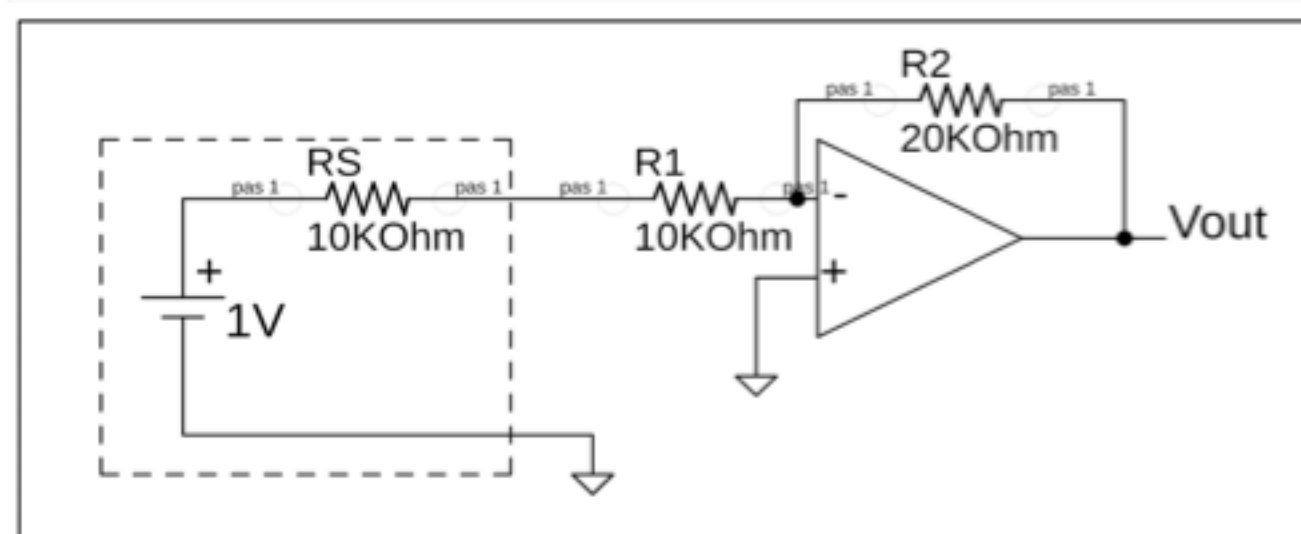


- Same frequency as the input waveform but 50% duty cycle
- Half the frequency and 50% duty cycle
- Twice the frequency and same duty cycle
- Half the frequency but same duty cycle

No, the answer is incorrect.
Score: 0

Accepted Answers:
Half the frequency and 50% duty cycle

- 10) The output of the following amplifier is: 1 point



- 1V
- 2V
- 1V
- 2V

No, the answer is incorrect.
Score: 0

Accepted Answers:
-1V