

**ΤΕΙ-Α
ΣΤΕΦ
ΤΜΗΜΑ ΗΛΕΚΤΡΟΝΙΚΗΣ
ΜΑΘΗΜΑ: ΑΓΓΛΙΚΑ ΕΙΔΙΚΟΤΗΤΑΣ
ΕΑΡΙΝΟ ΕΞΑΜΗΝΟ 2011
Α΄ ΕΞΕΤΑΣΤΙΚΗ – ΙΟΥΝΙΟΣ 2011
ΔΙΔΑΣΚΟΥΣΑ: Ε. ΚΑΠΕΛΛΟΥ**

**ΟΝΟΜΑΤΕΠΩΝΥΜΟ
ΣΠΟΥΔΑΣΤΗ/ΡΙΑΣ:.....
Α.Μ.:.....**

I. Combine the half statements in Column A with those in Column B to form correct and complete sentences.

Column A

1. To monitor the status of a nuclear reactor,
2. The digital signals in binary systems need have only two voltage levels,
3. The modern relay is a descendant of the original electrically controlled switches.
4. A combinational circuit contains no memory or feedback paths,
5. CMOS have the advantage that the power required is extremely low

Column B

- a. and is widely used in high-current switching networks.
- b. which can be labeled low and high.
- c. and will always operate in accordance with its truth table regardless of any prior input sequences to which the circuit may have been exposed.
- d. and they are suitable for applications where very little power consumption is a condition, as in digital watches.
- e. instruments are used to measure a multitude of relevant parameters, each instrument producing a signal

- 1 -
- 2 -
- 3 -
- 4 -
- 5 -

II. In some of the following sentences there is a grammar mistake. Find it and correct it. Put the letter R in front of the ones that are correct.

1. This process is accomplish by devices known as transducers.
2. The magnitude of an analogue signal can take on any value.
3. The vast majority of signals in the world around us are analogue.
4. Internal states and output variables can is updated at any time.
5. The memory elements are devices capable of store binary information within them.

III. Write the following sentences into the Passive Voice.

1. The choice of number system to represent the signal samples will affect the type of digital signal produced.
2. A CMOS logic circuit uses complementary MOS field-effect transistors to provide the basic logic functions.
3. In 1938, Shannon presented a means of symbolically analyzing the behavior of switching circuitry.
4. We can divide sequential circuits into synchronous and asynchronous.
5. Scientists have regarded TTL together with ECL as a standard against which all other logic circuits are judged.

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IV. Give the question form of the following sentences.

Example: Logical circuits had their beginning well over one hundred years ago.

Answer: Did logical circuits have their beginning well over one hundred years ago?

1. The information stored within the memory elements determines the state of the circuit at any time.
2. More and more of the signal processing functions have been performed digitally.
3. ECL is used in systems requiring high-speed operations.
4. The sound waves generated by a human can be converted into electrical signals using a microphone.
5. The great revolution in logic circuitry began in 1879.

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V. Put the given words in the correct order to form correct meaningful sentences

1. is / circuit / for building / a silicon crystal / The basic material / an integrated
2. a descendant of / The modern relay / controlled switches / is / the originally
3. contains / or feedback paths / circuit / no memory / A combinational
4. of multivibrators / class / the bistable / most widely used / is / The
5. in a number / Computer-based / can be / of ways / systems / implemented

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