



تعداد سوالات: تستی: ۱۵ تشریحی: ۷

زمان آزمون (دقیقه): تستی: ۵۰ تشریحی: ۴۰

سری سوال: یک ۱

عنوان درس: زبان تخصصی

رشته تحصیلی/کد درس: مهندسی برق - گرایش الکترونیک، مهندسی برق - گرایش قدرت، مهندسی برق - گرایش کنترل، مهندسی برق - گرایش  
مخابرات ۱۳۱۹۰۲۴ - ، مهندسی رباتیک ۱۵۱۱۰۶۷

1-The electricity has great ..... to the efficiency of the machine.

1. Significance                      2. Circuit                      3. Equipment                      4. Compact

2-The organization has been ..... for 25 years.

1. Appreciation                      2. Equipment                      3. Involved                      4. Outlet

3-Electronics, radio, and television are practical applications of the general principles of .....

1. electrical                      2. electronic                      3. electronics                      4. electrify

4-The engine was ..... by Ferrari V12.

1. Power                      2. Powered                      3. Powering                      4. Powerfully

5-There is a ..... Tower at an airport from which they direct the movement of an aircraft on the ground and in the air.

1. Control                      2. Controlled                      3. Controllable                      4. Controls

6-It is a device that is used for the ..... of analog into digital system.

1. Converter                      2. converted                      3. convertible                      4. Conversion

7-Accuracy is often expressed as a percentage of the quantity being .....

1. measuring                      2. measure                      3. measurably                      4. measured

8-"electrode of a transistor which collects charge carriers" is called ....

1. bipolar transistor                      2. collector  
3. emitter                      4. bias

9-Depending on their structure, JFETs fall into either of two categories, n channel and p channel.

1. collectors                      2. pictures                      3. groups                      4. connections

10-"size of a wave at any given time" is called ...

1. amplitude                      2. filter circuits                      3. terminal                      4. noise

11-"the state of having either a positive or negative electric charge" is called ....

1. polarity                      2. differential amplifier  
3. floating signal                      4. common-mode



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12- "any unwanted input signal; interference" is called ...

- |             |                           |
|-------------|---------------------------|
| 1. Terminal | 2. Noise                  |
| 3. Polarity | 4. Differential amplifier |

13- "the algebra of binary variables" is called ...

- |              |                      |
|--------------|----------------------|
| 1. FLIP-FLOP | 2. EXCLUSIVE-OR gate |
| 3. Bubble    | 4. Boolean algebra   |

14- "a logic circuit whose output is 1 if and only if all its inputs are 1" is called ...

- |             |             |              |            |
|-------------|-------------|--------------|------------|
| 1. NOT gate | 2. AND gate | 3. NAND gate | 4. OR gate |
|-------------|-------------|--------------|------------|

15- "basic part of a circuit" is called ....

- |                       |            |
|-----------------------|------------|
| 1. component          | 2. base    |
| 3. bipolar transistor | 4. epitaxy |

### سوالات تشریحی

### ترجمه کنید

16- Binary variables can be represented by a letter symbol such as A, B, X, Y, .... The variable theorems are given in Table 10-8.

۱.۰۰ نمره

17- Current is measured by passing the current through a low-resistance resistor and measuring the voltage drop across it.

۱.۰۰ نمره

18- There are three basic, linear analog circuit components: the resistor (R), capacitor (C), and inductor (L).

۱.۰۰ نمره

19- The field-effect transistor (FET) is a three-terminal device used for a variety of applications that match, to a large extent, those of the BJT transistor.

۱.۰۰ نمره

20- Not only is silicon less temperature sensitive, but also it is one of the most abundant materials on earth, removing any concerns about availability.

۱.۰۰ نمره

21- The satellite just happens to be orbiting around the earth at a height of above 35500 Km in order to have a tremendous field of view.

۱.۰۰ نمره

22- The programmability makes it easy to change designs or modify values in any given circuit or system at any time.

۱.۰۰ نمره