

سری سوال : یک ۱

زمان آزمون (دقیقه): تستی : ۶۰ تشریحی : ۶۰

تعداد سوالات : تستی : ۲۰ تشریحی : ۴

عنوان درس : زبان تخصصی، زبان تخصصی برق

رشته تحصیلی / کد درس : مهندسی برق - گرایش الکترونیک، مهندسی برق - گرایش قدرت، مهندسی برق - گرایش کنترل، مهندسی برق - گرایش  
مخابرات ۱۳۱۹۰۲۴ - ، مهندسی برق - گرایش الکترونیک، مهندسی برق - گرایش قدرت، مهندسی برق - گرایش کنترل  
مهندسی برق - گرایش مخابرات ۱۳۱۹۱۴۳

1- (جای خالی را با گزینه مناسب پر کنید و یا گزینه هم معنی با کلمه ای که زیر آن خط کشیده شده را انتخاب کنید)

Choose the correct answer

At the condensing stage a large quantity of heat has to be ..... the system.

1. extracted from      2. exited      3. condensed to      4. turned into

2- Electrical energy flows through a ..... that determines the billing for the customer.

1. sectionalizing fuse      2. metering device  
3. surge arrester      4. secondary mains

3- At the transformer, the voltage of the energy being delivered is reduced to the ..... voltage values from higher primary line voltages

1. utilization      2. insulation      3. overload      4. overdrive

4- The transformer is protected from overloads and faults by fuses or so-called weak links on the high-voltage side; the latter also usually include circuit-breaking devices. Here "the latter" refers to.....

1. the transformer      2. overload      3. fuses      4. weak links

5- If the transformer is situated on an ..... system, it is also protected from lightning or line voltage surges by a surge arrester.

1. overdrive      2. overload      3. overestimated      4. overhead

6- Voltage regulators and capacitors are installed at strategic points on primary circuits as which help in holding down energy ..... in the conductors.

1. construction      2. distribution      3. heating      4. losses

7- All ..... power stations depend on two fundamental factors: a flow of water and a difference in level or head.

1. coal-fired      2. oil-fired      3. hydroelectric      4. electromagnetic

8- A solar cell ..... light energy into an electrical signal.

1. converts      2. inverts      3. diverts      4. inserts

9- The package of a transistor can serve as a heat sink to ..... away any heat generated by the transistor.

1. connect      2. conduct      3. concern      4. combine

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10-In a closed-loop control system, the actuating error signal ..... to the controller.

1. feeds                                      2. fed                                      3. is fed                                      4. feeding

11-To ensure maximum ....., the ..... system must possess a high degree of electricity.

1. protected- protection                                      2. protective - protection  
3. protective - protected                                      4. protection - protective

12-Transistors having ..... packages, are usually inserted and soldered into holes in printed circuit boards (PCBs).

1. through-hole                                      2. surface mount                                      3. metal can                                      4. soldered

13-The transmitting antenna converts its input electrical energy into electromagnetic energy. The antenna can thus be thought of as a .....

1. transponder                                      2. transmitter                                      3. transceiver                                      4. transducer

14-The noise originating from the sun is termed ..... noise

1. solar                                      2. cosmic                                      3. thermal                                      4. shot

15-In the design of control systems, it is practical to first design the controller based on the linear-system model by neglecting the ..... of the system.

1. linear                                      2. linearity                                      3. nonlinear                                      4. nonlinearities

16-To properly manage information, electronic devices must be able to retrieve information.

1. overwrite                                      2. copy and paste  
3. erase                                      4. find and bring back

17-The electronic signal produced by the microphone is an analog to the speech signal. The word analog means:

1. familiar                                      2. proportional                                      3. similar                                      4. corresponding

18-The two fluids are allowed to come into contact and, as a consequence, some of the water is lost by evaporation.

1. mixture                                      2. construction                                      3. result                                      4. residual

19-The three-phase mains emanate from a distribution substation, supplied from a bus in that station.

1. originate                                      2. distribute                                      3. prolong                                      4. refer

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20-The diode is generally mounted in one of the three basic packages.

1. maintained

2. imitated

3. inserted

4. installed

سوالات تشریحی

21- Translate the following paragraphs:

نمره ۱.۷۵

(پاراگرافهای زیر را به فارسی روان ترجمه کنید)

Some three-phase laterals may sometimes also be connected to the three-phase main through circuit reclosers. The recloser acts to disconnect the lateral from the main should a fault occur on the lateral, much as a line or sectionalizing fuse. However, it acts to reconnect the lateral to the main, reenergizing it one or more times after a time delay in a predetermined sequence before remaining open permanently.

22-With the common-emitter bipolar transistor circuit configuration, the input signal is applied between the base and emitter, while the output signal appears between the transistor's collector and emitter. With this circuit arrangement, the input signal controls the transistor's base current, which in turn controls the transistor's output collector current and the emitter lead is common to both the input and output.

نمره ۱.۷۵

23-Feedback control refers to an operation that, in the presence of disturbances, tends to reduce the difference between the output of a system and some reference input and does so on the basis of the difference. Here only unpredictable disturbances are so specified, since predictable or known disturbances can always be compensated for within the system

نمره ۱.۷۵

24-Transmission of the modulated signal can take place by any one of propagation: antennas, waveguides, optical fibers, or transmission lines. The receiving unit of the system picks up the transmitted signal but must re-amplify it to compensate for attenuation that occurred during transmission.

نمره ۱.۷۵