



تعداد سوالات: تستی: ۲۰ تشریحی: ۵

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

سری سوال: یک ۱

عنوان درس: زبان تخصصی، زبان تخصصی برق

رشته تحصیلی/کد درس: مهندسی برق - گرایش مخابرات، مهندسی برق - گرایش الکترونیک، مهندسی برق - گرایش قدرت، مهندسی برق - گرایش کنترل ۱۳۱۹۰۲۴ - مهندسی برق - گرایش الکترونیک، مهندسی برق - گرایش کنترل، مهندسی برق - گرایش مخابرات مهندسی برق - گرایش قدرت ۱۳۱۹۱۴۳ - مهندسی ریاتیک ۱۵۱۱۰۶۷

1-The energy of water may be converted to work by hydraulic

1. grids 2. turbines 3. boilers 4. towers

2-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. linearities 3. nonlinear 4. nonlinearities

3-Pure water is heated in the to produce steam at high pressure and high temperature.

1. cooling towers 2. condensers 3. boilers 4. exchangers

4-The voltage serves to maintain outgoing voltage within a predetermined range on the circuit or feeder as its load varies.

1. comparator 2. regulator 3. compensator 4. distributor

5-A surge arrester the voltage surge to ground before it can do damage to the transformer.

1. recloses 2. drains 3. breaks 4. meters

6-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

7-An electronic circuit is composed of individual electronic, such as resistors, transistors, capacitors, inductors and diodes, connected by wires.

1. constructs 2. conductors 3. convertors 4. components

8-A/an is continuous and varies with time to correspond to the information being represented.

1. digital signal 2. analog signal 3. digital device 4. analog device

9-The word diode from the fact that the device has two (di) electrodes (ode).

1. derive 2. drive 3. is derived 4. is driven

10-The junction diode current when it is forward biased and current when it is reverse biased.

1. blocks - passes 2. prevents - supplies
3. passes - conducts 4. conducts - blocks



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20-The transmitted signal is during transmission, therefore it should be amplified in the receiving unit.

1. detected 2. propagated 3. demodulated 4. attenuated

سوالات تشریحی

21- (پاراگراف های زیر را به فارسی روان ترجمه کنید) نمره ۱.۴۰

Translate the following paragraphs into Farsi:

In many of the distribution system arrangements, some of the several elements between the generating plant and the consumer may not be necessary. In a relatively small area, such as a small town, that is served by a power plant situated in or very near the service area, the distribution feeder may emanate directly from the power plant bus, and all

22-Some systems are designed specifically to manage the flow of power and therefore are only electrical, while other systems are designed to manage both power and information. For example a television contains both electrical components and circuits that manage the flow of electrical power from the wall outlet and also electronic components and circuits that manage the flow of information or TV signals from the antenna or cable. نمره ۱.۴۰

23-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 ۱.۴۰

24-Digital communication systems represent information, irrespective of its type or origin, by a discrete set of allowed symbols. The amount of information conveyed by each symbol is closely related to its selection probability. نمره ۱.۴۰

25-In a feedback control system, the actuating error signal is fed to the controller so as to reduce the error and bring the output of the system to a desired value. However, in an open-loop control system the output has no effect on the control action. نمره ۱.۴۰