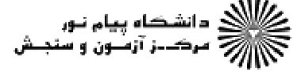


۱۳۹۶/۱۰/۲۰
۰۸:۳۰

کارشناسی



تعداد سوالات : 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 قدرت ، مهندسی برق - گرایش کنترل ، مهندسی برق - گرایش مخابرات ، مهندسی برق - گرایش الکترونیک ۱۳۱۹۰۲۴ - ، مهندسی برق - گرایش قدرت ، مهندسی برق - گرایش کنترل ، مهندسی برق - گرایش مخابرات مهندسی برق - گرایش الکترونیک ، مهندسی برق ۱۳۱۹۱۴۳ - ، مهندسی رباتیک ۱۵۱۱۰۶۷

Fill in the blanks with the appropriate words which best completes each item .

1- Choose the correct answer.

Cooling towers and condensers are two kinds of heat

1. condensed 2. exchange 3. coupling 4. circulation

2-Gas oil must be and then used.

1. isolated 2. heated 3. refined 4. vapourized

3-A network is if there exists at least one path, composed of branches of the network, between every pair of nodes of the network.

1. regulated 2. distribute 3. connected 4. limit

4- The deliver electric energy from the secondary distribution or street main, or other distribution feeder, or from the transformer, to the wiring system of the premises served.

1. meters 2. buses 3. services 4. feeders

5-Many of the signals that are encountered in are inherently analog, in the sense that they arise from a sensor that produces an output having a continuous relationship to a physical parameter.

1. electronics 2. amplification 3. transmits 4. conductivity

6-A/an is solely dependent upon magnitude to express information content.

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

7-A rotary joint is used to transmit electromagnetic energy between two transmission-line structures designed to permit mechanical of one structure.

1. switching 2. indicator 3. insulation 4. rotation

8-The atoms inside a crystal are constantly vibrating due to their thermal energy. Under conditions, these vibrations define the temperature of the crystal.

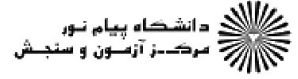
1. equilibrium 2. circulation 3. resistance 4. interaction

9-A is a device that scatters the light from a source, primarily by the process of diffuse transmission.

1. solder 2. dope 3. diffuser 4. package

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کارشناسی



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10-Integration technology has evolved from hand-wired circuitry to through-hole and, more recently, to surface-mount boards.

1. higher-density circuits
2. complex chips
3. printed circuit boards
4. IC packing

11-A heat exchanger or is used in rotating machinery to transfer heat between two fluids without direct contact between them.

1. adaptivity
2. heater
3. cooler
4. accomplishment

12-In everyday life, occurs when we are aware of consequences of our actions.

1. adaptation
2. regulation
3. feedback
4. control

13-Through the use of simulated inventory amounts and assumptions about factors, managers can experiment with various approaches to arrive at the most profitable inventory levels.

1. design
2. simulation
3. application
4. variation

14-A control system operates to achieve prescribed relationships between selected system variables by comparing functions of these variables and using the comparison to effect control.

1. dual-mode
2. feedback
3. two-step
4. feedforward

15-Ground-wave is much better over water than a very dry desert terrain.

1. propagation
2. reception
3. prodction
4. attenuate

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

1. a transponder
2. a transducer
3. a transmitter
4. a tranceiver

17-The noise generated in a resistance or the resistive component of any impedance is random and is referred to variously as, agitation, white or Johnson noise.

1. thermal
2. miscellaneous
3. shot
4. atmospheric

18-In control system, one or more parameters vary with time.

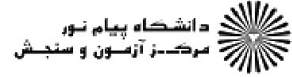
1. an automatic
2. a time-varying
3. an on-off
4. a time invariant

19-Control systems without feedback are called control systems.

1. closed-loop
2. open-loop
3. adaptive
4. learning

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کارشناسی



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20-As a matter of fact, the name was derived from the fact that through base control we can 'transfer' different values of 'resistance' between the emitter and collector.

1. thermistor 2. transformer 3. transistor 4. transmitter

سوالات تشریحی

Translate the following paragraphs

(پاراگرافهای زیر را به فارسی روان ترجمه کنید.)

21-Translate the following paragraphs:

نمره ۱،۲۰

In conventional power generation, fuel such as oil or coal is burned. The burning fuel heats boilers to produce steam. The steam is used to drive turbo-alternators. The MHD process generates electricity without requiring a boiler or a turbine.

22-An analog signal processor can be modified by adding analog-to-digital (A/D) and digital-to-analog (D/A) converters to transform a basically analog analysis into digital analysis.

نمره ۱،۲۰

23-The amount of fuel admitted to the engine is adjusted according to the difference between the desired and the actual engine speeds.

نمره ۱،۲۰

24-When feedback is deliberately introduced for the purpose of control, its existence is easily identified. However, there are numerous situations wherein a physical system that we normally recognize as an inherently nonfeedback system may turn out to have feedback when it is observed in a certain manner.

نمره ۱،۲۰

25-Sources of information can be either natural or man-made. An example of the former might be the air temperature at a given location. An example of the latter might be a set of company accounts.

نمره ۱،۲۰