



<p>محل مهر دایره امتحانات</p> 	نام:	نام خانوادگی:	شماره دانشجویی:
	نام درس: زبان تخصصی	نام استاد: فاطمه عبدالمجیدی	رشته تحصیلی: کارشناسی ناپویسته مهندسی برق- قدرت
	سال تحصیلی: 92-1391	<input checked="" type="checkbox"/> نیمسال اول <input type="checkbox"/> نیمسال دوم <input type="checkbox"/> نیمسال تابستانه	سوالات تستی نمره منفی دارد <input type="checkbox"/> ندارد <input checked="" type="checkbox"/>
	تاریخ امتحان 91/10/27	زمان پاسخگویی: 70 دقیقه	استفاده از ماشین حساب مجاز است <input type="checkbox"/> مجاز نیست <input type="checkbox"/>
ساعت: 14:30			

به تمام سوالات دربرکه سوال پاسخ دهید. ازبرکه اضافه فقط برای قسمت آخر یعنی ترجمه استفاده کنید.

A. Choose a, b, c, or d which best completes each item.

- Aserves as a common connection for two or more circuits.
a. fuse b. bus c. switch d. lateral
- Devices called..... are designed to open when a fault occurs on that part of the main in which they are connected.
a. reclosers b. regulators c. fuses d. relays
- The function of ais to interrupt circuit faults.
a. service b. line c. main d. transformer
- Two or more generating systems, substations, or feeding points may be connected together by a
a. tie wire b. tie feeder c. tie line d. tie trunk
- The state of.....is reached when all the magnetic domains are aligned in one direction.
a. magnetization b. flux density c. neutralization d. saturation
- Porcelain has high resistance to deterioration; in other words, it does not.....quickly.
a. deflect b. degenerate c. decrease d. decline
- Voltage stress may affect the.....of insulating materials.
a. sensitivity b. conductivity c. stability d. suitability
- The energy of water may be converted to work by hydraulic.....
a. turbines b. generators c. boilers d. towers

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	سال تحصیلی: 1391-92	نیمسال اول <input checked="" type="checkbox"/> نیمسال دوم <input type="checkbox"/> نیمسال تابستانه <input type="checkbox"/>	سوالات تستی نمره منفی دارد <input type="checkbox"/> ندارد <input checked="" type="checkbox"/>
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9. A.....is an electric circuit that supplies input to another electric circuit.

- a. condenser b. exchanger c. driver d. oscillator

10. Elements and metals which have slight magnetic properties are called.....materials

- a. paramagnetic b. diamagnetic c. ferromagnetic d. none of them

11. The most important parts of a dc motor are the....., the stator, and the brush gear.

- a. commutator b. armatur c. rotor d. mover

12. Gas oil must be.....and then used.

- a. isolated b. heated c. refined d. vaporized

13. Cooling tower cause water to be..... .

- a. condensed b. exhausted c. evaporated d. recycled

14. A switch can be.....by a lever or other operating means.

- a. arranged b. operated c. subjected d. measured

15. For keeping electrical conductors separated from each othermaterials are used.


- a. insulating b. capacitive c. resistive d. conducting

16. The Of metals increases with increase of temperature.

- a. conductivity b . resistivity c. solubility d. durability

B. Use the correct form of each word.

- In a sand-filled fuse, the heat and gases generated when the fuse.....are absorbed by the sand. (Melt)
- The inrush current of the rectifier transformer is generally thefactor. (Limit)
- Ablade is an active element of a fan. (Blow)

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- The substation may require voltageequipment. (Regulate)
- A duct installed for occupancy of distribution mains is known as aduct. (Distribute)
- The solid.....generally are of the form of annular discs and truncated cones. (Insulate)
- Different insulation.....have different characteristics. (Arrange)
- The role played by electrical.....instruments is vital to all modern factories. (Measure)


C. Fill in the blanks with the following words.

1. Inductance, element, circuit, discovered, flux, changing, current

1. Inductance is a characteristic of magnetic fields, and it was first (1)..... by Faraday in his renowned experiments of 1831. In a general way inductance can be characterized as that property of a circuit (2)..... by which energy is capable of being stored in a magnetic (3)..... field. A significant and distinguishing feature of inductance, however, is that it makes itself felt in a circuit only when there is a/an (4).....current or flux. Thus, although a circuit element may have (5)..... by virtue of its geometrical and magnetic properties, its presence in the (6)..... is not exhibited unless there is a time rate of change of (7).....

2. Generally, quality, same, oil, produce, natural, feed, situated, heat

2. Any steam power station burning coal or (8).....could fairly easily be converted to burn (9)..... gas. Such stations must, of course, be(10)..... near a large gas main. However, it is (11)..... felt that natural gas is too high a/an (12)fuel and too valuable as an industrial (13)..... stock. The point is that gas burnt to produce electricity which might then be used for home heating, would produce (14).....at about 33 percent efficiency, whereas the (15)..... gas burnt in a domestic boiler would (16).....heat at up to 80 percent efficiency.

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D. Translate the following passages and sentences into Persian.

1. Power station oil can be divided into crude oil which is oil as it comes from the well, and residual oil which remains when the more valuable fractions have been extracted in the oil refinery. The cost of moving oil by pipeline is less than that of moving coal by rail, but even so stations burning crude oil are often sited near deep-water berths suitable for unloading medium-sized tankers.

2. Insulation Failures account for a high percentage of the equipment troubles on electric – power system. The selection of proper materials, the choice of proper shapes and dimensions, and the control of destructive agencies are some of the problems of the insulation – system designer. Many different materials are used as insulation on electric – power system. The choice of material is dictated by the requirements of the particular application and by cost.

3. Dielectric Heating is a method of heating a non-conducting material, a dielectric, by high – frequency voltage. Dielectric heating has two great advantages over other forms of heating: it provides rapid heat and the heat is produced uniformly throughout the material gets hot at the same time as the surface. In addition dielectric heating can be easily controlled and it is predictable. Accurate heating times can be calculated knowing the dielectric properties of the material to be heated. Dielectric heating has many different uses from the manufacture of plastic raincoats to baking biscuits. It is especially used in plastics, wood working, and food industries.