
	شماره دانشجویی:	نام خانوادگی:	نام:
	رشته تحصیلی: کارشناسی ناپیوسته مهندسی انتقال و توزیع	نام استاد: خانم عبدالحمیدی	نام درس: زبان تخصصی
	<input checked="" type="checkbox"/> ندارد <input type="checkbox"/> سوالات تئوری نمره منفی دارد	<input type="checkbox"/> نیمسال تابستانه <input checked="" type="checkbox"/> نیمسال دوم	سال تحصیلی: ۱۳۹۰-۹۱
	<input type="checkbox"/> مجاز نیست <input type="checkbox"/> استفاده از ماشین حساب مجاز است	زبان پاسخگویی: ۱۰۰ دقیقه	تاریخ امتحان: ۹۱/۳/۳۱ ساعت: ۲:۳۰

به تمام سوالات در برگه سوال پاسخ دهید.

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

- The state of.....is reached when all the magnetic domains are aligned in one direction.
a. magnetization b. flux density c. neutralization d. saturation
- The solid.....generally are of the form of annular discs and truncated cones.
a. insolation b. insulator c. insulators d. insulated
- 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.....of insulating materials.
a. the sensitivity b. the conductivity c. the stability d. the suitability
- The energy of water may be converted to work by hydraulic.....
a. turbines b. generators c. boilers d. towers
- A.....is an electric circuit that supplies input to another electric circuit.
a. condenser b. exchanger c. driver d. oscillator
- Elements and metals which have slight magnetic properties are called.....materials.
a. paramagnetic b. diamagnetic c. ferromagnetic d. none of them
- The most important parts of a dc motor are the....., the stator, and the brush gear.
a. commutator b. armature c. rotor d. mover
- The cooling factor in a cooling tower is.....the tower.
a. the pond under b. the water inside c. the interior d. the air passing through
- Gas oil must be.....and then used
a. isolated b. heated c. refined d. vaporized
- In the condenser, the outlet steam is.....and recirculated.
a. exchanged b. condensed c. depressurized d. purified

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	سوالی تستی نمره منفی دارد <input type="checkbox"/> ندارد <input checked="" type="checkbox"/>	نیسال تاسن <input type="checkbox"/> نیسال دوم <input checked="" type="checkbox"/> نیسال اول <input type="checkbox"/>	سال تحصیلی: ۱۳۹۰-۹۱
	استاد راهنما: حساب مجاز است <input type="checkbox"/> مجاز نیست <input type="checkbox"/>	زمان پاسخگویی: ۱۰۰ دقیقه	تاریخ امتحان: ۹۱/۳/۳۱ ساعت: ۲:۳۰

12. Cooling tower cause water to be.....

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

13. Which of the following sentences is false?

- a. the higher the insulation the less the loss of power.
b. in order to avoid insulation failure, very expensive materials are used in power systems
c. insulation failures affect the electric equipment.
d. voltage and temperature variations may bring about insulation failures.

14. Different insulation.....have different characteristics.

- a. arrange b. arranging c. arrangements d. arranges

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

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

16. The role played by electrical.....instruments is vital to all modern factories.

- a. measured b. measurement c. measuring d. measures

17. Tapes of insulating fibre glass are commonly used to insulate.....

- a. ordinary conductors b. high-voltage cables
c. the windings of power transformer d. the coils of generators and motors

18. Insulating tapes.....withstand high temperature.

- a. cannot b. can c. may d. may not

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


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

20. What does the word *fluctuate* mean?

- a. decline b. entail c. frequent d. divert

تعداد کل سوالات: ۲۰ شماره صفحه: ۳ تعداد کل صفحات: ۴

تشریحی: ۵ تکمیلی: ۱

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B. Fill in the blanks with following words, write the meaning of each underlined one.

manufactured shattered traceable moistened cracked


current causes normal due to perfect

Modern porcelain insulators are designed and.....in such a fashion that in themselves they are almost.....in operation. Flashover of line insulator is almost always.....to the breakdown of the air around them.....overvoltage from lightning or other.....Insulators whose surfaces are contaminated and then.....by light rain or fog may flash over even under.....operating-voltage conditions. If an insulator is.....or porous and permits lightning or power-frequency.....to pass through the body of the insulator, it may be.....with the resultant drooping of the line.

C. Translate the following paragraphs.

Closer investigation reveals that the atom of any substance experiences a torque when placed in a magnetic field. The resultant magnetic moment of an atom depends upon three factors: the positive charge of the nucleus spinning on its axis, the negative charge of the electron spinning on its axis, and the effect of the electrons moving in their orbits. The magnetic moment of the spin and orbital motions of the electron far exceeds that of the spinning proton.

Real transformers, as opposed to the ideal kind, have many non-idealities. These include non-perfect coupling to the core, core losses, and saturation. Non perfect coupling to the core can come about because of coupling to the air. The magnetic flux in the core set up by one winding doesn't want to make the right-angled bend, and a small portion of it escapes into air.

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Early coal-burning stations were built near the load they supplied. A station of 2GW output, consumes about 5 million tons of coal in a year. In Britain where most power station coal is carried by rail, this represent an average of about 13 trains a day each carrying 1000 tons. This means that large coal-fired stations need a rail link unless the station is built right at the pit head.

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.

Many different materials are used as insulation on electric-power systems. The choice of material is dictated by the requirements of the particular application and by cost. In residences, the conductors used in branch circuits and in the cords to appliances may be insulated with rubber or plastics of several different kinds. Such materials can withstand necessary bending, are relatively stable in characteristics, and are inexpensive. They are subjected to relatively low electrical stress.