

۱. جاهای خالی را با کلمات داده شده پر کنید. (۴ نمره)

great, conducting, current, coal, resistor, cost

- a) The ..... of moving oil by pipeline is less than that moving ..... by rail.
- b) A ..... is made out of some ..... stuff, with a wire coming out each end.

۲. معنی جملات داده شده را بصورت کامل و روان بنویسید. (۱۶ نمره)

- a) For the distribution system to function satisfactorily, faults on any part of it must be isolated or disconnected from the rest of the system as quickly as possible; indeed, if possible, they should be prevented from happening.
- b) Capacitors come in an amazing variety of shapes and sizes. The basic construction is simply two conductors near each other; in fact, the simplest capacitors are just that. For greater capacitance, you need more area and closer spacing.
- c) The first requirement of any computer is a mechanism for manipulating data. This is provided by the ALU, which can perform such functions as adding or subtracting two numbers, performing logical operations and incrementing or decrementing numbers.
- d) Similarly, the control unit may be likened to the brain of the computer since its function is to control the program execution according to the sequence of instructions encoded as the computer program.

Good Luck