

Name:

A) Link the following sentences. Make the sentence in each pair a relative clause:

- 1) - The coil is connected in series with a resistor. -The resistor has a value of 240 ohms.
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- 2) - The supply is fed to a distribution substation. - The supply is reduced to 415 V in the distribution substation.
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- 3) - Workers require a high degree of illumination. -The workers assemble very small precision instruments.
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- 4) Manganin is a metal. - This metal has a comparatively high resistance.
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- 5) The signal passes to the detector. - The signal is rectified by the detector. -
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- 6) - Starter motor brushes are made of carbon. -The carbon contains copper.
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- 7) - Industrial consumers are supplied at higher voltages than domestic consumers. - These consumers use large quantities of energy.
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- 8) - Workers require illumination of 300 lux. -The workers assemble heavy machinery.
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- 9) -Armoured cables are used in places. - There is a risk of mechanical damage in these places.
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- 10) -33 kV lines are fed to intermediate substations. - In the intermediate substations the voltage is stepped down to 11 kV.....
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B) Link the following statements-reasons and statements-results.

- 1) Soft iron is used in electromagnets -Soft iron can be magnetized easily.
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- 2) The voltage is 250 V and the current 5 A - The resistance is 50 Ω .
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- 3) Pvc is used to cover cables. -Pvc is a good insulator.
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- 4) Transistors can be damaged by heat -Care must be taken when soldering transistors.
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- 5) Capacitance is usually in microfarads or picofarads - The farad is too large unit.
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- 6) Output transistors are mounted on a heat sink. -Output transistors generate heat.
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- 7) It is easy to control the speed of dc motors. - Dc motors are used when variable speeds are required.
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- 8) A cathode-ray tube screen glows when an electron strikes it. -The screen is coated with a phosphor.
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- 9) Copper is used for cables -Copper is a good conductor.
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- 10) The flow of electrons through an insulator is very small - The flow can be ignored.
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C) Write your own definition of the following instruments, machine and tool

- 1) A voltmeter:
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- 2) An electric motor:
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- 3) An electric cell:
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- 4) An ohmmeter:
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- 5) Wire-clippers:
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