Scientific Communication

Exercises on Grammar

Series 07

Notation

- Errors are blue.
- Correct versions are green.
- Comments are black.
- Highlights are red.

Errors

- It is verified that a electron performs circular motion under uniform magnetic field.

Error 1

- It is verified that a electron performs circular motion under uniform magnetic field.

Correction 1

- It is verified that an electron performs circular motion under uniform magnetic field.

Error 2

- It is verified that an electron performs circular motion under Δ uniform magnetic field.

  singular noun; missing a/an

Correction 2

- It is verified that an electron performs circular motion under a uniform magnetic field.

Error 3

- It is verified that an electron performs circular motion under a uniform magnetic field.

  wrong preposition

  in a field

Correction 3

- It is verified that an electron performs circular motion in a uniform magnetic field.

Corrections

- It is verified that an electron performs circular motion in a uniform magnetic field.

Errors

- Variation in voltage and current would cause the radius of the electron beam changes.

Error 1

- Variation in voltage and current would cause the radius of the electron beam changes.

  cause … to change

Correction 1

- Variation in voltage and current would cause the radius of the electron beam to change.

Error 2

- Variation in Δ voltage and Δ current would cause the radius of the electron beam to change.

  specific voltage and current; missing the

Correction 2

- Variation in the voltage and the current would cause the radius of the electron beam to change.

Error 3

- Variation in the voltage and the current would cause the radius of the electron beam to change.

  radius of the orbit !

  physics misleading !

Correction 3

- Variation in the voltage and the current would cause the radius of the orbit traced out by the electron beam to change.

Corrections

- Variation in the voltage and the current would cause the radius of the orbit traced out by the electron beam to change.

Errors

- Generating magnetic field for the experiment is produced by means of the Helmholtz coils.

Error 1

- Generating magnetic field for the experiment is produced by means of the Helmholtz coils.

  generating ... is produced ?

  magnetic field ... is produced ?

Correction 1

- Magnetic field for the experiment is produced by means of the Helmholtz coils.

Error 2

- Δ Magnetic field for the experiment is produced by means of the Helmholtz coils.

  specific field, missing the

Correction 2

- The magnetic field for the experiment is produced by means of the Helmholtz coils.

Corrections

- The magnetic field for the experiment is produced by means of the Helmholtz coils.

Errors

- The field produced by the Helmholtz coils is sufficient to our experiment because we are dealing with low energy electron.

Error 1

- The field produced by the Helmholtz coils is sufficient to our experiment because we are dealing with low energy electron.

wrong preposition

sufficient for

Correction 1

- The field produced by the Helmholtz coils is sufficient for our experiment because we are dealing with low energy electron.

Error 2

- The field produced by the Helmholtz coils is sufficient for our experiment because we are dealing with low energy electron.

  many electrons

  (should be clear to any physics student)

Correction 2

- The field produced by the Helmholtz coils is sufficient for our experiment because we are dealing with low energy electrons.

Corrections

- The field produced by the Helmholtz coils is sufficient for our experiment because we are dealing with low energy electrons.

Errors

- If we pass 1 A current to the coils, the field at the center is about 7.6 gauss.

Error 1

- If we pass 1 A current to the coils, the field at the center is about 7.6 gauss.

  wrong preposition

  current through the coils

Correction 1

- If we pass 1 A current through the coils, the field at the center is about 7.6 gauss.

Error 2

- If we pass 1 A current through the coils, the field at the center is about 7.6 gauss.

  not idiomatic

  1 A

  a current of 1 A

Correction 2

- If we pass 1 A through the coils, the field at the center is about 7.6 gauss.

Corrections

- If we pass 1 A through the coils, the field at the center is about 7.6 gauss.

Error

- The electron beam can deflected by the parallel plates.

Error

- The electron beam can deflected by the parallel plates.

  beam is deflected by ...

Correction

- The electron beam can be deflected by the parallel plates.

Errors

- In collision with the electron, the gas atoms in the electron beam tube are ionized.

Errors

- In collision with the electron, the gas atoms in the electron beam tube are ionized.

  many collisions

  many electrons

Corrections

- In collisions with the electrons, the gas atoms in the electron beam tube are ionized.

Errors

- The experiment is necessary to carry out in darkened room.

Error 1

- The experiment is necessary to carry out in darkened room.

  It is necessary to ...

  Food is necessary.

Correction 1

- It is necessary to carry out the experiment in darkened room.

Error 2

- It is necessary to carry out the experiment in Δ darkened room.

  singular non-specific noun; missing a

Correction 2

- It is necessary to carry out the experiment in a darkened room.

Corrections

- It is necessary to carry out the experiment in a darkened room.

Error

- The cathode filament is heated and emission of electrons begin.

Error

- The cathode filament is heated and emission of electrons begin.

  subject-verb disagreement

Correction

- The cathode filament is heated and emission of electrons begins.