**S.4 PHYISICS TEST 2**

**TERM II 2024**

**TIME: 1 HOUR: 20 MINUTES**

**ITEM 1**:

Places far from the referral hospitals have always had challenges with the diagnosis and treatment of certain sicknesses. Now the government intends to provide X- ray machines to health centers in the in the country to improve the diagnosis and treatment as a student of physics.

1. Explain what X-rays are and what they can do in the community.
2. Explain how the machine will be effectively used.
3. Explain how X-rays are different from cathode rays.

**ITEM 2:**

The use of nuclear power is on increasing levels in many countries.

Actually many African countries are in an attempt to adopted nuclear power usage on addition their existing sources of power.

However, governments are cautioned on the risks behind nuclear materials despite of the many advantages compared to other sources.

As a student of physics.

1. Explain to the government of Uganda the advantages and disadvantages of nuclear power.
2. What measures should be put in place to manage properly the use of nuclear power.
3. Suggest some political dimensions of nuclear power.

**END**