

1. The bremsstrahlung process produces x-rays when

- a. electrons are slowed in the cathode
- b. a vacancy in an electron orbital is filled
- c. a vacancy in the nucleus is filled
- d. electrons are stopped in the anode

2. Characteristic radiation is produced when
 - a. electrons are slowed in the cathode
 - b. a vacancy in an electron orbital is filled
 - c. a vacancy in the nucleus is filled
 - d. electrons are stopped in the anode

- 7. Tungsten has the following binding energies

Shell	K	L	M	N
Energy (keV)	69	11	2	1

- Projectile electrons must have an energy of at least _____keV to produce K characteristic x-rays from tungsten
- a. 50
- b. 70
- c. 67
- d. 58