

**27** In a X-ray tube, electrons of high energy  $E$  are incident on a target of tungsten. Which of the following statements is true?

- A** All the energy is converted to X-rays.
- B** The minimum X-ray wavelength obtained is  $hc/E$ .
- C** The wavelengths of the characteristic lines in the X-ray spectrum is dependent on  $E$ .
- D** The intensity of the characteristic lines in the X-ray spectrum is independent on  $E$ .