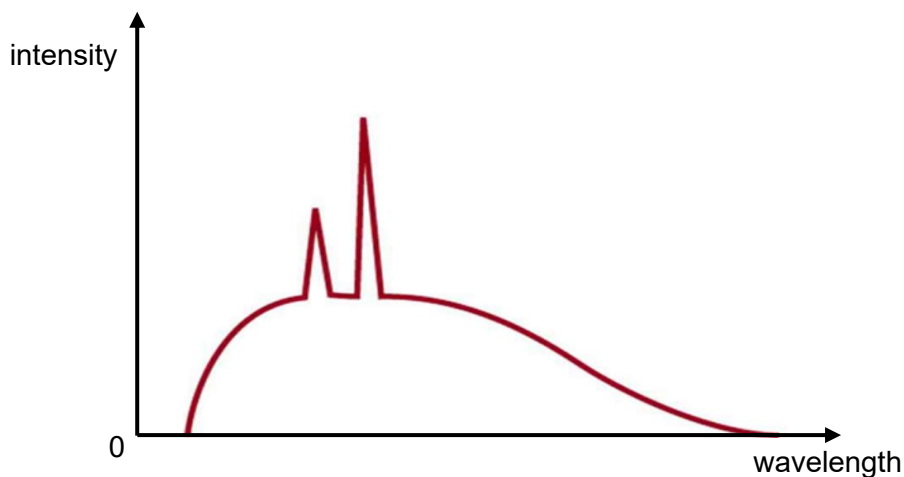


28 An X-ray spectrum is shown in the figure below.



Which of the following best explains the origin of the sharp peaks in the X-ray spectrum?

- A** They are caused by transitions of electrons between energy levels in the atoms of the target.
- B** They are produced when high-energy electrons slow down in the electric fields of nuclei.
- C** They result from scattering of X-rays off electrons in the target.
- D** They are due to diffraction of X-rays by atoms in the crystal lattice of the target.