

**16** A diffraction grating with 5000 lines per centimetre is illuminated normally by white light.

Which of the following statements is false?

- A** Within the first-order spectrum, the violet end is closer to the central maxima than the red end.
- B** The yellow region of the second-order spectrum coincides with the violet end of the third-order spectrum.
- C** The violet end of the third-order spectrum is visible.
- D** The violet end of the fourth-order spectrum is not visible.