

9 The spectrum of electromagnetic radiation from a galaxy is observed to have a redshift.

Which of the following is a correct statement about lines in this spectrum?

- ☐ A All the lines are in the red part of the spectrum.
- ☐ B All the lines are observed to have longer wavelengths than expected.
- ☐ C Lines with wavelengths at the red end of the spectrum are the most intense.
- ☐ D Light for all the lines was emitted with longer wavelengths than expected.

(Total for Question 9 = 1 mark)