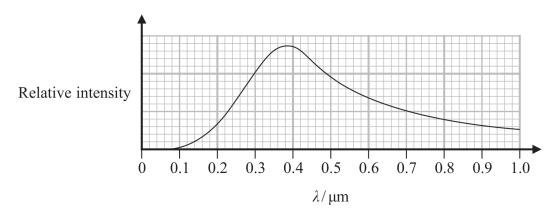
15 A graph of relative intensity against wavelength for a star is shown.



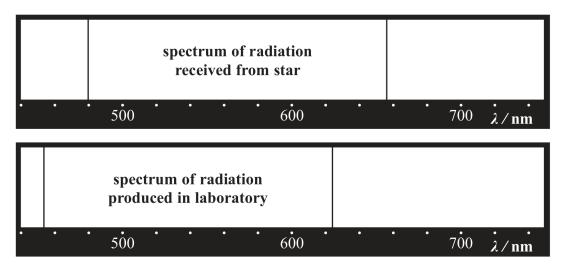
(a) Determine the surface temperature of the star.

- /	79	- /
- 6	- 10	- 10
- 1		- 11
- 1	_	,

Surface temperature of star =



(b) Radiation from the star is analysed. The radiation from the star has spectral lines at different wavelengths from the same spectral lines produced by a source in the laboratory, as shown.



Explain what can be concluded about the star from these results. Your answer should include a calculation.

(Total for Question 15 = 8 marks)

(5)