

## PART II

Attempt **TWO** questions in this Part, which carries 24% of the marks for the examination. All of these questions carry equal marks. You are advised to spend about **40 minutes** on this Part. Write your answers to this Part in the **SEPARATE ANSWER BOOK** provided.

Remember to write your name, personal identifier and examination number on your answer book.

### Question 1

part a, 2%

part b, 10%

Figure 1 is a close-up view of the solar photosphere.

- (a) Explain why it is reasonable to regard the photosphere as the solar 'surface'.
- (b) Name, describe and account for each of the two types of feature that are ringed and arrowed, and outline any ways in which they vary during the solar activity cycle.

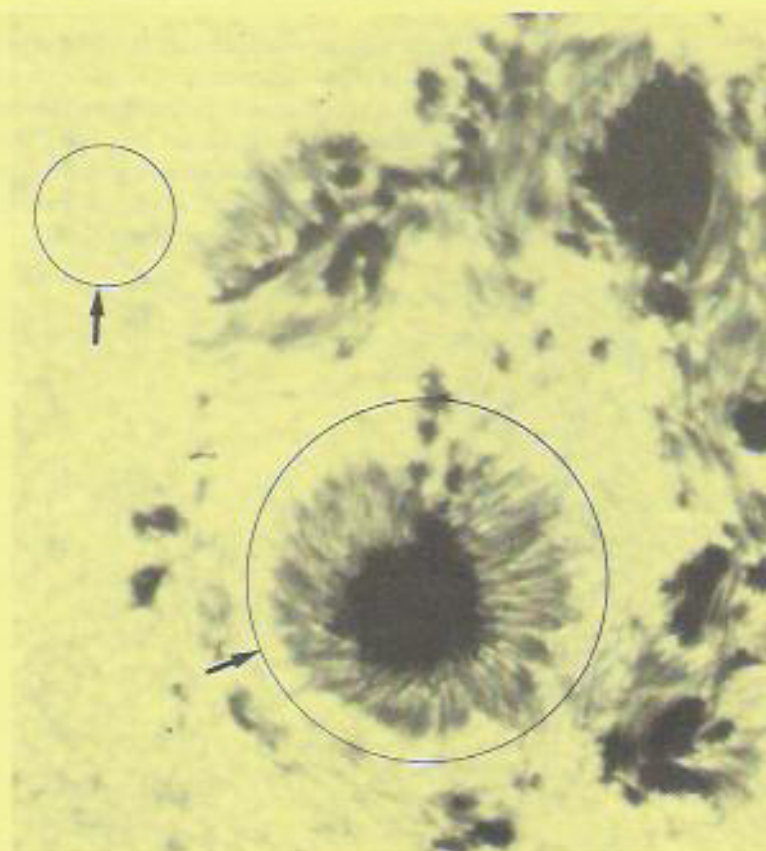


Figure 1 A close-up of the photosphere of the Sun.