2 **(a)** The internal body temperature of a person was recorded.

Fig. 2.1 shows the results.

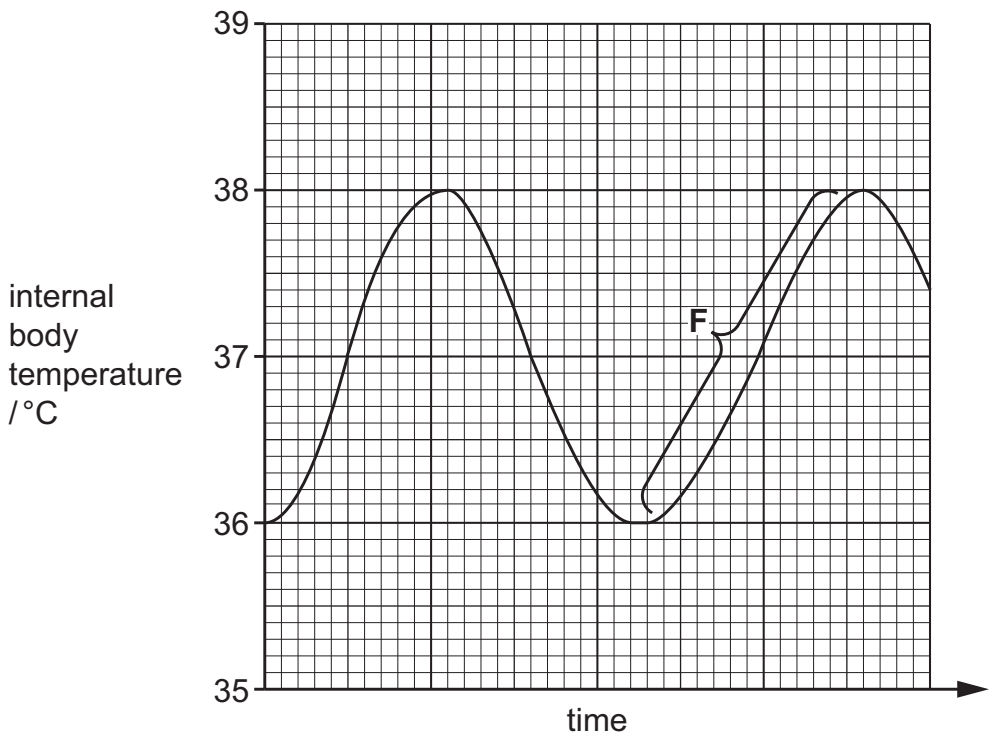

Fig. 2.1

(i) Using the information in Fig. 2.1, calculate the temperature range for the internal body temperature of the person.

State the units.

..... [1]

(ii) On Fig. 2.1, draw a line to show the set point for the internal body temperature of the person. [1]

(iii) The maintenance of internal body temperature is an example of homeostatic control.

State the name of the mechanism for homeostatic control.

..... [1]

(iv) On Fig. 2.1, region **F** shows a change in body temperature.

Explain how the body causes the change in body temperature shown.

.....

.....

.....

.....

.....

.....

.....

.....

..... [5]

(b) Fig. 2.2 shows a cross-section of human skin.

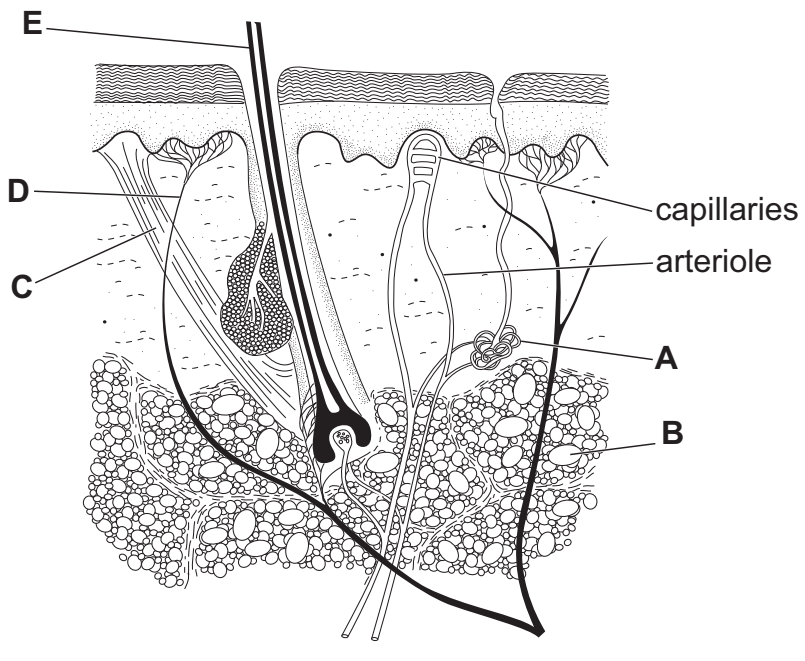

Fig. 2.2

(i) State the letter of the structure shown in Fig. 2.2 that produces sweat.

..... [1]

(ii) State the names of structures **C** and **D** shown in Fig. 2.2.

C .....

D .....
[2]

[Total: 11]