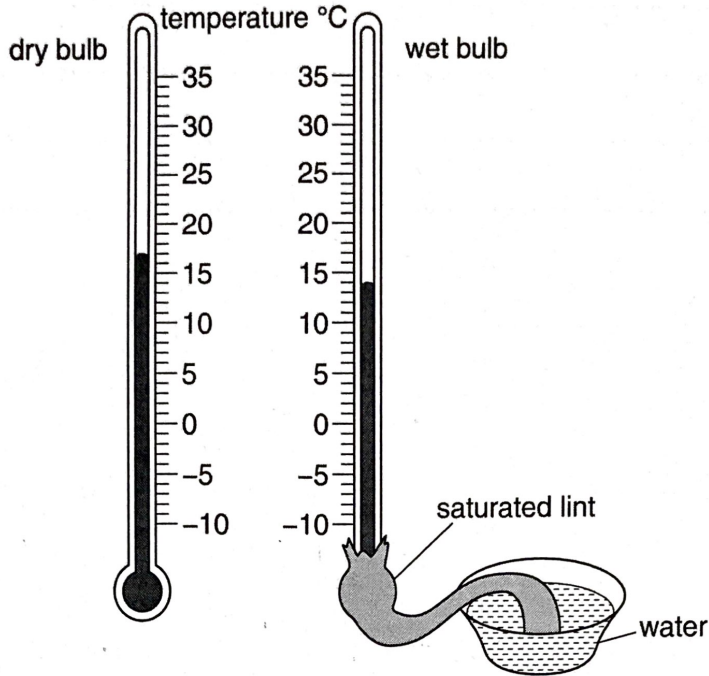


**QUESTION 3**

**3 (a)** Study Fig. 5, which shows a weather instrument.



**Fig. 5**

**(i)** Identify the weather instrument shown in Fig. 5.

.....[1]

**(ii)** Explain how the weather instrument shown in Fig. 5 is used to work out relative humidity.

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.....[2]

**(iii)** Explain why the weather instrument shown in Fig. 5 is kept in a Stevenson Screen.

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.....[3]

(iv) Name **two** other weather instruments which are kept in a Stevenson Screen and for each one state the weather characteristic it measures.

1 .....

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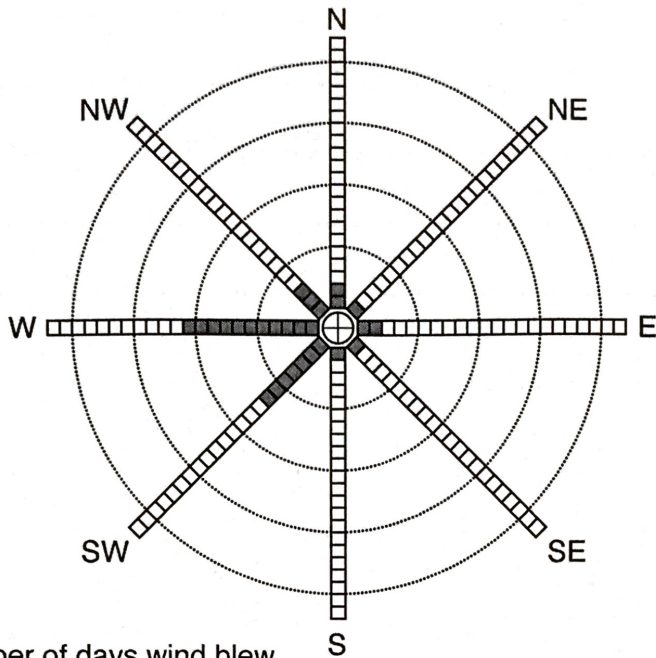
2 .....

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[4]

(b) Study Fig. 6, wind roses for Tiree, an island off the west coast of Scotland, in March and October 2013.

Month: March Monitored daily at: Tiree

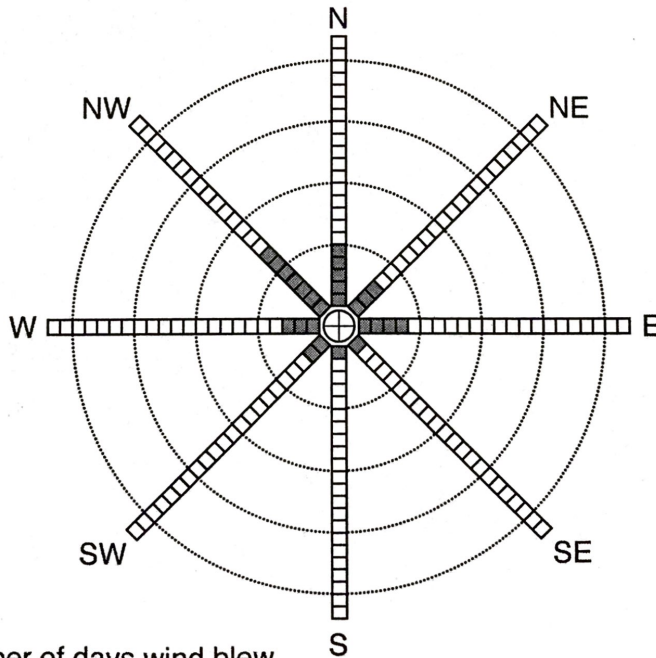


**Key**

■ ■ ■ ■ ■ W number of days wind blew from that direction

The bars on both wind roses show the number of days when the wind was blowing from that direction. Calm days were not recorded.

Month: October Monitored daily at: Tiree



**Key**

■ ■ ■ ■ ■ W number of days wind blew from that direction

Fig. 6

(i) Describe the differences between the wind directions in Tیره in March and October.

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[3]

(ii) Explain how wind speed and direction measurements are obtained at a weather station. You may include diagrams of the instruments used.

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