

1(a) Lahulspiti	-8°C
Srinagar	-2°C
Shimla	$+5^{\circ}\text{C}$
Ooty	14°C
Bangalore	22°C

$$\begin{aligned}
 1(b) \text{ required difference} &= 22 - (-8) \\
 &= 22 + 8 \\
 &= 30^{\circ}\text{C}
 \end{aligned}$$

$$\begin{aligned}
 1(c) \text{ required difference} &= 5 - (-8) \\
 &= 5 + 8 \\
 &= 13^{\circ}\text{C}
 \end{aligned}$$

$$\begin{aligned}
 1(d) \text{ sum of temperatures} \\
 \text{of Shimla and Srinagar} &= 5 + (-2) \\
 &= 3^{\circ}\text{C}
 \end{aligned}$$

$$\text{temperature of Shimla} = 5^{\circ}\text{C}$$

\therefore Temperature of Shimla $>$ Sum of temp. of Shimla and Srinagar

$$\text{temperature of Srinagar} = -2^{\circ}\text{C}$$

\therefore Temp. of Srinagar \neq Sum of temp. of Shimla and Srinagar