**Worksheet (Ungraded)**

**Circle two input devices that could be used in a smartphone.**

HDD magnetic stripe reader microphone mouse

remote control speaker touchpad touch screen

**Pradeep uses his personal computer to complete work at home.**

(a) Pradeep uses a mouse and a keyboard to control the computer.

(i) Complete the descriptions of the principles of operation of a mouse and a keyboard

using the most appropriate terms from the list. Not all terms in the list need to be used.

• absorbs

• ball

• biometric

• circuit

• colour

• digital

• direction

• Light-Emitting Diode (LED)

• Liquid Crystal Display (LCD)

• reflects

• speed

• switch

• transparency

An optical mouse shines a red light from a ................................................... underneath

the mouse. The light .................................................. back from a surface through a

lens in the mouse and is converted to a value. This value is transmitted to the

computer. The computer then determines the ................................................... and

................................................... of the movement.

When the user presses a key on a keyboard, the key pushes the

................................................... on the circuit board. This completes a

................................................... . Signals are sent to the computer. The computer uses

the data to calculate which key was pressed.