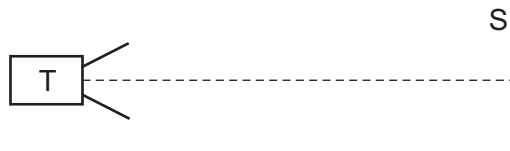


**27** T is a microwave transmitter placed at a fixed distance from a flat reflecting surface S.



A small microwave receiver is moved from T towards S and receives signals of alternate maxima and minima of intensity.

The distance between one maximum and the next is 15 mm.

What is the frequency of the microwaves?

- A**  $1.0 \times 10^7 \text{ Hz}$
- B**  $2.0 \times 10^7 \text{ Hz}$
- C**  $1.0 \times 10^{10} \text{ Hz}$
- D**  $2.0 \times 10^{10} \text{ Hz}$