

20 Two waves of equal frequency and amplitude are travelling in opposite directions along a stretched string. When they meet, they form a stationary wave with three nodes and two antinodes. The frequency of both waves is doubled and a new stationary wave is formed.

How many antinodes are there in the new stationary wave?

A 1

B 3

C 4

D 5

31 A spherical water droplet with density 1000 kg m^{-3} and diameter $1.20 \mu\text{m}$ is suspended in a