

The number of amplitude modulated broadcast stations that can be accommodated in a  $300\text{kHz}$  band width for the highest modulating frequency  $15\text{kHz}$  will be:

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20

10

8

15

## Solution:

Given, modulating frequency  $f_m = 15\text{kHz}$

$\therefore$  Bandwidth of one channel  $= 2f_m = 30\text{kHz}$

$\therefore$  No of channels accommodate  $= \frac{300\text{kHz}}{30\text{kHz}} = 10$