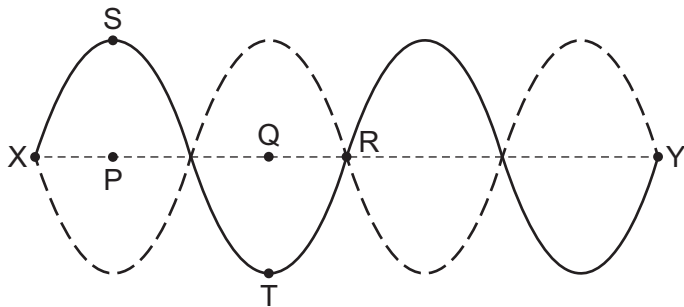


- 27** The diagram shows a string stretched between fixed points X and Y. There is a stationary wave on the string.



The solid curve shows the string at a position of maximum displacement. The dashed curve shows the other position of maximum displacement. The straight central dashed line shows the mean position of the string. Point S on the string is directly above point P. Point T on the string is directly below Q.

Which statement is correct?

- A** A short time later, point R on the string will be displaced.
- B** Points S and T on the string move in opposite directions.
- C** The distance between P and Q is one wavelength.
- D** Two points on the string that are equal distances from point R vibrate in phase.