

Q108. The least distance $\frac{1}{3}\pi$ between two points of a progressive transverse wave which have a phase difference of $\frac{1}{3}\pi$ rad is 0.050 m. If the frequency of the wave is 500 Hz, what is the speed of the wave?

- A** 25 m s⁻¹
- B** 75 m s⁻¹
- C** 150 m s⁻¹
- D** 1666 m s⁻¹

(Total 1 mark)

Q109.



Coherent monochromatic light of wavelength λ emerges from the slits X and Y to form dark fringes at P, Q, R and S in a double slit apparatus. Which one of the following statements is true?

- A** When the distance D is increased, the separation of the fringes increases.
- B** When the distance between X and Y is increased, the separation of the fringes increases.
- C** When the width of the slit T is decreased, the separation of the fringes decreases.
- D** There is a dark fringe at P because $(YP - XP)$ is 2λ .

(Total 1 mark)

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SJ Ball



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