

10 Two waves leave the same source in phase. The waves travel along different paths and then meet. The wavelength of the waves is 8.0 cm.

Which of the following would cause constructive interference when the waves meet?

- ☐ **A** path difference of 16.0 cm
- ☐ **B** path difference of $\frac{3\lambda}{2}$
- ☐ **C** phase difference of 180°
- ☐ **D** phase difference of 3π radians

(Total for Question 10 = 1 mark)