

SECTION A

Answer ALL questions.

For questions 1–10 select one answer from A to D and put a cross in the box ☐.

If you change your mind, put a line through the box ☒ and then mark your new answer with a cross ☐.

- 1** Two waves, of wavelength λ , from a single source diverge and then meet again. Which of the following situations would cause constructive interference?

- ☐ **A** a path difference of $\frac{\lambda}{2}$
- ☐ **B** a path difference of λ
- ☐ **C** a phase difference of $\frac{\pi}{2}$
- ☐ **D** a phase difference of π

(Total for Question 1 = 1 mark)