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Time: 30 Min	PHY101	2nd QUIZ (15 Marks) Set A | Apr. 2026

Draw and write constructive and destructive interference of light. Mark-3

List down the advantages and disadvantages of optical fiber. **Mark-3**

Explain how phase difference arises in the Young's Double Slit Experiment. Derive the expression for phase difference in terms of path difference. **Mark-5**

The absolute refractive indices of diamond and water are 2.52 and 1.33 respectively. If the speed of light in diamond is 2.34×10^8 m/s, calculat the speed of light in: (i) vacuum and (ii) water. **Mark-**

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