



UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 2nd Semester Examination, 2021

CC4-PHYSICS

WAVES AND OPTICS

Full Marks: 40

ASSIGNMENT

The figures in the margin indicate full marks.

[For each question, the candidates will be graded according to the quality of the presentation of the topic (8 marks) and originality of language (2 marks). Maximum word limit of each topic is 400]

Write short notes on any four of the following topics

10×4 = 40

1. Lissajous's figures with equal and unequal frequencies.
2. Wavefront and Huygens principle.
3. Phase velocity and group velocity.
4. Newton's ring: determination of unknown wavelength of monochromatic light.
5. Fraunhofer diffraction at a double slit.
6. Michelson's interferometer.

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