PH-110

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Total No. of Questions: 8]

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Roll No

PH-110

B.E. (All Branches) First Semester

Examination, December 2016

Choice Based Credit System (CBCS)

Physics

Time: Three Hours

Maximum Marks: 60

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. Discuss Maxwell's equations in integral and differential form.
- 2. Explain construction and working of a Ruby laser.
- 3. Explain pulse dispersion in a step-index fiber.
- 4. Derive expression for compton shift in Compton scattering process.
- 5. Explain Newton's rings experiment.
- 6. Give working of Zener diode and Photo diode.

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7. Explain salient features of liquid drop model for nucleus.

PTO

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Write short notes on:

- Uncertainty principle
- Hall effect
- Coulomb's law

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