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Reg. No. :

3046

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(For the candidates admitted from 1999 onwards)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2001.

Second Semester

Physics

ELECTROMAGNETIC THEORY
AND ELECTRODYNAMICS

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions in 1 or 2 sentences.

1. State Thomson's theorem.
2. What is meant by displacement current density?
3. Mention the equation for cut-off wavelength.
4. What is meant by coherent scattering?
5. What is meant by four-vectors?