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Reg. No. :

2135

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(For the candidates admitted from 1999 onwards)

M.Sc. DEGREE EXAMINATION, APRIL 2002.

Second Semester

Part III — Physics

Paper VI — ELECTROMAGNETIC THEORY AND
ELECTRODYNAMICS

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

SECTION A — (10 × 2 = 20 marks)

Choose the correct answer :

~~$\chi_e \propto T$~~ $\chi_e \propto \frac{1}{T}$

1. — Electrical susceptibility varies inversely with absolute temperature is called

- (a) Polarisation
- (b) Curie law
- (c) Debye relation
- (d) Gauss law.

2. The units of Poynting vector is

- (a) watt/m² ✓
- (b) m²/sec
- (c) watt-m²
- (d) joules.

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