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S.E. (Mechanical) (First Semester) EXAMINATION, 2012

APPLIED THERMODYNAMICS

(2008 PATTERN)

Time : Three Hours

Maximum Marks : 100

- N.B. :-** (i) Answer *three* questions from Section I and *three* questions from Section II.
- (ii) Answers to the two Sections should be written in separate answer-books.
- (iii) Neat diagrams must be drawn wherever necessary.
- (iv) Figures to the right indicate full marks.
- (v) Use of logarithmic tables, slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.
- (vi) Assume suitable data, if necessary.

SECTION I

UNIT I

1. (a) Write a note on reversibility. [4]
- (b) Prove that Kelvin-Planck statement and Clausius statement are equivalent. [6]

P.T.O.



