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Total No. of Questions—12]

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[3662]-112

S.E. (Mech. Sand.) (I Sem.) EXAMINATION, 2009

METALLURGY

(2008 PATTERN)

Time : Three Hours

Maximum Marks : 100

- N.B. :-**
- (i) Answer any *three* questions from each Section.
 - (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) Assume suitable data, if necessary.

SECTION I

1. Solve the following :

- (A) Explain the effect of the following crystalline defects on properties of materials :
 - (i) Point defects
 - (ii) Line defects. [6]
- (B) What is recrystallization ? Define recrystallization temperature. Explain the factors affecting recrystallization process. [6]
- (C) Derive the equation for critical resolve shear stress during slip in a single crystal. [4]

P.T.O.

