

Total No. of Questions—12]

[Total No. of Printed Pages—4+2

**[3762]-121****S.E. (Mechanical) (II Sem.) EXAMINATION, 2010****PRODUCTION TECHNOLOGY****(2008 COURSE)****Time : Three Hours****Maximum Marks : 100**

**N.B. :—** (i) Attempt *one* question of each Unit from Section I and Section II.

(ii) Answers to the two Sections should be written in separate answer-books.

(iii) Draw neat diagrams wherever necessary.

(iv) Assume suitable data if required.

**SECTION I****Unit I**

1. (a) List the various types of chips produced during metal cutting. Describe the conditions in which these types of chips are produced. [8]

(b) A job of 40 mm in diameter is being turned on lathe with a tool having a rake angle  $31^\circ$  and feed 0.15 mm/rev. The length of the chip over one revolution of workpiece is 67 mm. The cutting speed is 12 m/min. The tangential force is 415 N and feed force is 175 N : [10]

Calculate :

(i) Coefficient of friction on the rake face.

P.T.O.

