

Roll No.

Total Pages : 2

BT-8/M-20

38047

MACHINE FOUNDATION

Paper-CE-416-E

Time Allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

UNIT-I

1. Discuss vibration of a single degree freedom system for undamped free vibration. 15
2. (a) What are the general requirements of Machine foundation? 6
- (b) Discuss Allowable soil pressure, permissible stresses in concrete and steel and timber. 9

UNIT-II

3. Discuss the method for determination of coefficient of elastic uniform compression and elastic uniform shear. 15
4. Discuss the design procedure for reciprocating machine foundation. Also mention the I.S. code recommendations. 15

38047/K/1004

P. T. O.

UNIT-III

5. Discuss the design procedure for a Hammer foundation, also covering the IS code instructions. 15
6. Discuss Resource method of analysis in detail. 15

UNIT-IV

7. Explain :
 - (a) Force isolation.
 - (b) Motion isolation. 15
8. What is vibration absorbing material? What is primary use of it? Discuss method for vibration isolation. 15