**MTMH205**

**Second Semester M. Tech (Mathematics) Engineering**

**Examination Aug/Sep-2015**

**Environment & Safety in Process Industries**

**Time:-3Hours Max. Marks: - 80**

**SECTION-A**

**Answer any five questions: (6\*5)**

1. Briefly write about the Vibroflotation.
2. What do you understand by Food chain?
3. Mention the advantages of Drilled-Shaft Foundations.
4. Write a brief note on Dutch Method.
5. Briefly write about the general nature of Sanitary Landfills.
6. What do you mean by Negative Friction?
7. Write a brief note on Group Efficiency.
8. What do you understand by piles in rock?

**SECTION-B**

**Answer any two questions: (10\*2)**

1. Differentiate Friction from Compaction Piles.
2. Compare the theory of field load tests with its results.
3. State the common types of Mat Foundations.

**SECTION-C**

**Answer any two questions: (15\*2)**

1. How Pile Length can be estimated?
2. Elaborate the concept of bottom heave of a cut in clay.
3. What do you mean by Concrete Piles? Give some examples also.