**Mid-term Assignment**

**Course Title: MICROBIAL ECOLOGY**

**(BS. Microbiology 4th)**

**Instructor: MR. AMIR AFZAL KHAN**

**Time: 48 hour Max Marks: 30**

**Note:**

* **Attempt all questions from this section, all questions carry equal marks.**
* **Answer Briefly and to the point, don’t cut past avoid un-necessary details**

Case Study #2

September 24, 2015

populations can overgrow and produce their enterotoxins. These toxins released are ultimately

responsible for the diarrhea symptoms of the host.

6. What is the major virulence factor for this microorganism?

# **Q1: Briefly explain the different methods which are used for the Estimation of the Microbial population in Soil? Select any one method which is most commonly used for the isolation of the specific pathogen from the water sample.**

# **Q2: Differentiate between**

* **Microbial ecology and Macroecology**
* **Ecosphere and ecological niche**
* **Nitrogen fixation and Nitrification**
* **Carbon Cycle and sulfur cycle**
* **CFU and BOD**

# **Q3: What do you know about Pathogen-Host Interactions? Explain the types of interaction with example?**