

**Q.P. Code: 205001****Reg. no.:**

Second Professional MBBS Degree Examinations, February 2016

Microbiology - Paper I**Time: 2 Hours****Total Marks: 40**

- Answer all questions
- Draw diagrams wherever necessary

Essay:**(10)**

1. Read the clinical history and answer the following questions:

A 24 years old man was admitted in medical ward with a history of diarrhea for the past two days. On clinical examination he was severely dehydrated. The macroscopic appearance of the stool resembled 'rice water'. Answer the following:

- What is the probable diagnosis and name the causative agent
- Mention the method of sample collection and transportation of the sample to the laboratory.
- What is the pathogenesis of the above disease.
- Describe the laboratory diagnosis.
- What is the prophylaxis.

(1+2+2+4+1=10)**Short essay:****(2x5=10)**

2. Type IV hypersensitivity reaction.
3. Pathogenesis and laboratory diagnosis of enteric fever.

Short notes:**(10x2=20)**

4. Tyndallisation.
5. T-helper cells.
6. Transduction
7. Bacterial flagella
8. Enrichment medium.
9. Lymphogranuloma venereum.
10. Helicobacter pylori.
11. Coagulase test.
12. Nagler reaction.
13. Types of diarrhoeogenic escherichia coli.

