

M- 009A1

 M.B.B.S. 2nd PROFESSIONAL EXAMINATION, 2011

MICROBIOLOGY
PAPER I

Time Allowed: Three Hours

Maximum Marks- 40

Note:- Attempt all questions in serial order. All parts of a question should be answered together. Figures in parenthesis indicate marks allotted to a question.

- Q1. A 35 years old man who is a sewage worker by profession presents with fever, vomiting and jaundice. On examination purpuric rashes were observed. Laboratory investigations revealed altered renal and hepatic function. Special, microscopy revealed motile bacteria. (1+2+5)
- What is the most probable diagnosis? (1)
 - Discuss the pathogenesis of the condition. (4)
 - Discuss the laboratory methods for diagnosis of the condition. (3)
- Q2. Discuss briefly:
- Type I hypersensitivity reaction. -- 1 (3)
 - Alcohol as disinfectant (2)
 - Transposons (3)
- Q3. Describe briefly:
- Virulence factors of *Streptococcus pyogenes* (3)
 - Cholera toxin (2)
 - Contribution of Louis Pasteur to Microbiology (3)
- Q4. Define immunity. What are different types of immunity? Discuss mechanism of innate immunity. (1+2+5)
- Q5. Write short notes on:
- Antibiotics working on cell wall of bacteria -- phagocytosis (3)
 - Methods of antibiotic sensitivity testing (2)
 - Bacterial fimbriae (3)

.....