



**UNIVERSITY OF JAFFNA, SRILANKA**  
**BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES**  
**FOURTH YEAR SECOND SEMESTER EXAMINATION- JAN 2013**  
**MLSCM 4201 CLINICAL MICROBIOLOGY**

**Date: 09.01.2013**

**Time: 3 Hours**

**ANSWER ALL SIX QUESTIONS.**

1.
  - 1.1 Describe the methods and the procedures which are used in the identification of bacteria from stool sample received from a diarrhoeal patient **(70 Marks)**
  - 1.2 Name five special media used in the identification of bacteria from stool sample and give the main ingredients of them. **(30 Marks)**
  
2. Describe the laboratory tests you would use to come to a microbiological diagnosis at species level if a clinical specimen shows
  - 2.1 gram positive cocci in clusters **(50 Marks)**
  - 2.2 gram positive cocci in chains **(50 Marks)**
  
3.
  - 3.1 Describe different types of ELISA with the help of diagrams **(50 Marks)**
  - 3.2 Enumerate the advantages and disadvantages of each method mentioned in 3.1. **(20 Marks)**
  - 3.3 Write notes on Western blot. **(30 Marks)**

4. 4.1 Write an account on direct detection methods used in viral diseases in the laboratory **(50 Marks)**
- 4.2 Describe the steps used to prepare cell culture monolayer from a monkey kidney **(50 Marks)**
5. Write notes on the following
- 5.1 Staining methods for bacterial identification **(50 Marks)**
- 5.2 Disc diffusion methods in Antibiotic sensitivity tests (ABST) **(50 Marks)**
- 6.
- 6.1 Name five bacterial pathogens which cause respiratory infection **(10 Marks)**
- 6.2 Outline the specimen collection and transport for identifying the Pathogens mentioned in 6.1. **(30 Marks)**
- 6.3 Describe the laboratory diagnosis of the bacterial pathogens you mentioned in 6.1. **(60 Marks)**

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