

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES
THIRD YEAR SECOND SEMESTER EXAMINATION – JANUARY 2013

MLSMV 3201 MEDICAL MYCOLOGY AND VIROLOGY
PAPER II



Date: 21.01.2013

Time: 2 hours

ANSWER ALL EIGHT QUESTIONS.

1.

- 1.1** Name five filamentous fungi which cause opportunistic infections **(15 Marks)**
- 1.2** Describe the laboratory tests that are used to identify any of the **three** fungi you mentioned in 1.1 **(85 Marks)**

2.

- 2.1** List five illnesses that can be caused by candida Infections **(15 Marks)**
- 2.2** Describe the laboratory methods which can be used to identify candida infections **(60 Marks)**
- 2.3** Describe briefly how you would differentiate Cryptococcus spp. from Candida in the laboratory **(25 Marks)**

3. Write notes on

- 3.1** Antifungal agents **(20 Marks)**
- 3.2** Dermatophytes **(40 Marks)**
- 3.3** Saboraud Dextrose Agar **(40 Marks)**

4.

4.1

4.1.1 Name three systemic fungal pathogens and give the infections that could be caused by them (15 Marks)

4.1.2 List eight specimens you would collect to identify the pathogens you mentioned in 4.1.1 and describe the identification of each pathogen (50 Marks)

4.2 Write notes on Slide culture technique (35 Marks)

5. Describe briefly the **transmission, laboratory diagnosis and prevention** of the following diseases

5.1 Dengue (50 Marks)

5.2 AIDS (50 Marks)

6. Write notes on the following

6.1 Laboratory diagnosis of Viral Gastroenteritis (40 Marks)

6.2 Inclusion bodies (30 Marks)

6.3 Rabies (30 Marks)

7.

7.1 List the Hepatitis viruses (20 Marks)

7.2 Describe the **clinical manifestations, laboratory diagnosis and prevention** of the infections caused by the viruses you mentioned in 7.1 (80 Marks)

8.

8.1

8.1.1 Name four viruses which cause respiratory tract infections in human (10 Marks)

8.1.2 Briefly write the laboratory tests to identify the viruses you mentioned in 8.1 (60 Marks)

8.2 Write notes on Ebstein Barr Virus infections (30 Marks)