

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES
THIRD YEAR FIRST SEMESTER EXAMINATION – AUGUST 2017

MLSMV 3115 MEDICAL MYCOLOGY AND VIROLOGY
PAPER II

Date: 14.08.2017

Time: 2 hours

ANSWER ALL EIGHT QUESTIONS.

1.

- 1.1 Name three dermatophytes that cause human infections. **(15 marks)**
- 1.2 Describe the mode of transmission of dermatophytes in human. **(25 Marks)**
- 1.3 Briefly describe how to collect and transport the samples for microbiological diagnosis from a patient with Dermatophytosis. **(20 marks)**
- 1.4 Briefly describe two laboratory tests used to identify the fungi mentioned in 1.1. **(40 marks)**

2.

- 2.1 Name two yeasts which cause human infections. **(10 marks)**
- 2.2 List the clinical manifestations caused by the pathogens mentioned in 2.1. **(30 marks)**
- 2.3 Briefly describe how you would identify the pathogens mentioned in 2.1. **(60 marks)**

3. Write notes on the followings

- 3.1 LPCB stain **(40 marks)**
- 3.2 Mycetoma **(30 marks)**
- 3.3 Dimorphic fungi **(30 marks)**

4.

- 4.1 List four culture media which can be used for fungal diagnosis. **(20 marks)**
- 4.2 Briefly discuss the advantages and disadvantages of performing the fungal culture in a petri dish. **(35 marks)**

- 4.3 Briefly describe the safety precautions you would follow in mycology laboratory. **(45 marks)**
- 5.
- 5.1 List five herpes viruses which cause human infections. **(15 Marks)**
- 5.2 List the samples to be collected for diagnosis of the infections caused by the viruses mentioned in 5.1. **(25 Marks)**
- 5.3 Describe how would you identify the viruses mentioned in 5.1. **(60 Marks)**
6. Describe the mode of transmission, laboratory diagnosis and preventive measures of the following diseases.
- 6.1 Rabies **(50 Marks)**
- 6.2 Hepatitis B infection **(50 Marks)**
7. Write short notes on the following
- 7.1 Direct methods used to identify viral diseases. **(50 Marks)**
- 7.2 Diagnostic markers of HIV infection. **(50 Marks)**
- 8.
- 8.1 Describe the laboratory tests used in a microbiology laboratory to diagnose Dengue. **(60 Marks)**
- 8.2 Write notes on prevention and control of Arboviral infections. **(40 Marks)**