

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES
THIRD YEAR FIRST SEMESTER EXAMINATION – SEPTEMBER 2018

MLSMV 3115 MEDICAL MYCOLOGY AND VIROLOGY
PAPER II

Date: 26.09.2018

Time: 2 hours

ANSWER ALL EIGHT QUESTIONS.

1.

- 1.1 List three subcutaneous mycoses caused in human. **(15 Marks)**
- 1.2 Name the causative agent of each infection mentioned in 1.1. **(15 Marks)**
- 1.3 What are the specimens collected for laboratory diagnosis of the above conditions mentioned in 1.1. **(15 Marks)**
- 1.4 Briefly describe how to identify the fungal pathogens mentioned in 1.1 in a mycology laboratory. **(55 Marks)**

2. Write notes on

- 2.1 Histoplasmosis **(50 Marks)**
- 2.2 Candidiasis **(50 Marks)**

3.

- 3.1 Name three filamentous fungi which cause opportunistic infections in human. **(15 Marks)**
- 3.2 Describe the laboratory tests used to identify each of the above pathogen mentioned in 3.1. **(60 Marks)**
- 3.3 Write notes on culture media used for the identification of fungal pathogens. **(25 Marks)**

4.

- 4.1 List three superficial fungal infections. **(15 Marks)**
- 4.2 Name the causative agents responsible for the above infections mentioned in 4.1. **(15 Marks)**
- 4.3 Describe briefly the mode of transmission of the infections mentioned in 4.1. **(30 Marks)**
- 4.4 How would you identify the pathogens mentioned in 4.2 in a mycology laboratory **(40 Marks)**

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

5.1. Dengue (50 Marks)

5.2. Rabies (50 Marks)

6. Briefly describe the laboratory diagnosis of the following infections.

6.1 HIV (50 Marks)

6.2 Herpes Simples Virus (50 Marks)

7. Write an account on safety measures that you would follow in a virology laboratory on the following aspects

7.1 Collection and transport of specimen for virological diagnosis. (50 Marks)

7.2 Handling and disposal of specimens used for virological diagnosis. (50 Marks)

8.

8.1 Name four viruses which cause viral gastroenteritis in human. (20 Marks)

8.2 How you would collect and transport the specimen for the identification of the pathogens mentioned in 8.1. (50 Marks)

8.3 Briefly write the laboratory tests used to identify the above viral infections. (30 Marks)

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