

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES
THIRD YEAR FIRST SEMESTER EXAMINATION – FEBRUARY 2017
MLSMV 3115 MEDICAL MYCOLOGY AND VIROLOGY
PAPER II

Date: 07.02.2017

Time: 2 hours

ANSWER ALL EIGHT QUESTIONS.

1.

- 1.1 Name three fungi which cause opportunistic infections in human (15 marks)
1.2 Briefly describe the infections caused by each fungus mentioned in 1.1 (25 marks)
1.3 Describe the laboratory procedures used for the diagnosis of each fungus mentioned in 1.1 (60 marks)

2.

- 2.1 Name three genera which cause dermatophytosis in human (15 marks)
2.2 Briefly describe how would you collect and transport the specimen for the diagnosis of infection mentioned in 2.1 (40 marks)
2.3 Describe the laboratory procedures involved in the diagnosis of infection mentioned in 2.1 (45 marks)

3. Write notes on the following

- 3.1 Pityriasis Versicolor (30 marks)
3.2 Rhinosporidiasis (35 marks)
3.3 Germ tube test (35 marks)

4.

- 4.1 List four culture media which can be used for fungal culture (20 marks)
4.2 Briefly describe the uses of each media mentioned in 4.1 (30 marks)
4.3 Describe the procedures of slide culture for diagnosis of fungi (50 marks)

5. Describe the mode of transmission, laboratory diagnosis and preventive measures of the following illnesses
- 5.1 Hepatitis B infection (40 Marks)
 - 5.2 Influenza (30 Marks)
 - 5.3 Rubella infection (30 Marks)
6. Write short notes on the following
- 6.1 Serological markers in HIV infection (60 Marks)
 - 6.2 Standard precautions (40 Marks)
- 7.
- 7.1 List five herpes viruses which cause infections in man (20 Marks)
 - 7.2 Briefly describe the mode of transmission and clinical manifestations caused by each virus mentioned in 7.1 (40 Marks)
 - 7.3 Describe the laboratory procedures for the diagnosis of infections caused by viruses mentioned in 7.1 (40 Marks)
- 8.
- 8.1 Name three ARBO viruses which cause infections in Sri Lanka (15 Marks)
 - 8.2 Describe the mode of transmission and pathogenesis of one of the viruses mentioned in 8.1 (30 Marks)
 - 8.3 Describe the laboratory procedures for the diagnosis of each virus mentioned in 8.1. (30 Marks)
 - 8.4 Write the prevention and control measures for the infections caused by the virus mentioned 8.2. (25 Marks)