



**UNIVERSITY OF JAFFNA, SRI LANKA**  
**BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES**  
**THIRD YEAR FIRST SEMSTER EXAMINATION – JANUARY 2016**  
**MLSPA 3102 PATHOLOGY II**

**PAPER II**

**Date: 27.01.2016**

**Time: 2 hours**

**ANSWER ALL QUESTIONS**

1.
  - 1.1. Write 3 blood test values used in diagnosis of Diabetes mellitus. (15 marks)
  - 1.2. List 5 complications of Diabetes mellitus. (25 marks)
  - 1.3. Explain pathologic basis of HbA1C test (40 marks)
  - 1.4. List 5 causes for hypothyroidism (20 marks)
  
2.
  - 2.1. List 3 causes of hospital acquired pneumonia (15 marks)
  - 2.2. Briefly explain the role of T<sub>H2</sub> cells in the pathogenesis of bronchial asthma (40 marks)
  - 2.3. List 3 organisms which could cause community acquired acute pneumonia (15 marks)
  - 2.4. List 5 features of paraneoplastic syndromes associated with Lung cancers (30 marks)
  
3.
  - 3.1. List 5 causes of acute tubular necrosis (20 marks)
  - 3.2. Briefly describe the pathogenesis of acute pyelonephritis (60 marks)
  - 3.3. List 5 causes of acquired hydronephrosis (20 marks)
  
4.
  - 4.1. List 5 risk factors for breast carcinoma (20 marks)
  - 4.2. Describe the spread of breast carcinoma (40 marks)
  - 4.3. Explain the role of PSA (Prostate specific antigen) in prostate cancer (40 marks)

5. 5.1. List 5 viral causes of Hepatitis (20 marks)
- 5.2. Diagrammatically explain the relationship between alcohol and alcohol liver disease (40 marks)
- 5.3. Mention 4 causes of non alcoholic fatty liver disease (20 marks)
- 5.4. List 4 causes of portal hypertension. (20 marks)
6. 6.1. Explain pathogenesis of ischemic heart disease (50 marks)
- 6.2. List 4 causes of secondary lymphoedema (20 marks)
- 6.3. List 4 modifiable major risk factors for atherosclerosis (30 marks)
7. 7.1. List 5 complications of diarrhoea (20 marks)
- 7.2. Briefly explain the role of diet in relation to colonic carcinoma (40 marks)
- 7.3. Explain the role of Helicobacter pylori in development of gastritis (40 marks)
8. 8.1. List the steps in fracture healing of the bone (35 marks)
- 8.2. Diagrammatically explain the development of osteoporosis (50 marks)
- 8.3. List 4 types of intracranial hemorrhages (15 marks)