

**UNIVERSITY OF JAFFNA, SRI LANKA**  
**BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES**  
**THIRD YEAR FIRST SEMESTER EXAMINATION - NOVEMBER 2014**  
**MLSPA 3102 PATHOLOGY II**  
**PAPER II**

**Date: 14.11.2014**

**Time: 2 Hours**

**ANSWER ALL EIGHT QUESTIONS**

**1.**

- 1.1. List 5 causes for secondary hypertension. (10 Marks)  
1.2. Describe pathogenesis of Myocardial infarction. (80 Marks)  
1.3. List 5 risk factors for deep vein thrombosis. (10 marks)

**2.**

- 2.1. Briefly describe the pathogenesis of bronchial asthma. (60 Marks)  
2.2. List 3 causes of hospital acquired pneumonia. (10 Marks)  
2.3. List 3 organisms causing tuberculosis in human. (10 Marks)  
2.4. List 4 paraneoplastic syndromes manifested with Lung cancer. (20 Marks)

**3.**

- 3.1. List 5 complications arising in Inflammatory Bowel Disease. (10 Marks)  
3.2. Describe the role of *Helicobacter pylori* in the development of gastric diseases. (60 Marks)  
3.3. Briefly describe pathogenesis of cholesterol type Gall stones development (30 Marks)

**4.**

- 4.1. List 4 causes of hypothyroidism? (10 Marks)  
4.2. Mention the environmental risk factors for thyroid cancers (10 Marks)  
4.3. List 5 complications of Diabetes mellitus (20 Marks)  
4.4. Describe pathological basis of these complications. (60 Marks)

- 5.**
- 5.1.** Mention 5 risk factors of breast cancer (10 Marks)
  - 5.2.** Describe the metastasis of breast cancer (60 Marks)
  - 5.3.** Give brief description on Prostate specific antigen (PSA) (30 Marks)
- 6.**
- 6.1.** Write 5 predisposing factors to the urinary tract infection (10 Marks)
  - 6.2.** Describe pathogenesis of acute pyelonephritis. (60 Marks)
  - 6.3.** List the cardinal features of Nephrotic syndrome (20 Marks)
  - 6.4.** Name 2 drugs that cause acute tubular injury. (10 Marks)
- 7.**
- 7.1.** List 5 causes of secondary osteoporosis. (20 Marks)
  - 7.2.** Outline the pathogenesis of osteoporosis (50 Marks)
  - 7.3.** Mention the steps in fracture healing (30 Marks)
- 8.** Write short notes on the following
- 8.1.** Cerebrospinal fluid analysis of acute pyogenic meningitis (25 Marks)
  - 8.2.** Ectopic pregnancy (25 Marks)
  - 8.3.** Sterile pyuria (25 Marks)
  - 8.4.** Leukoplakia (25 Marks)