

**UNIVERSITY OF JAFFNA, SRI LANKA**  
**SECOND EXAMINATION FOR MEDICAL DEGREES—AUG 2013**  
**COMMUNITY AND FAMILY MEDICINE**

**Date: 27.08.2013.**

**Time: 3 hours**

**ANSWER ALL THE SIX QUESTIONS**

**Answer each Question in separate answer book**

1. A study was conducted to determine the Prevalence of anaemia during pregnancy in Anuradhapura district and to evaluate present screening methods available for screening of anaemia. A total of 990 pregnant women participated in the study. In the first, second and third trimesters, prevalence of anaemia was 7.6%, 19.7% and 19.3% respectively. Gestational age adjusted anaemia prevalence among pregnant women in this study population was 14.15 (95% Confidence Interval (CI) 12.0-16.4%). Mean and Median haemoglobin concentrations of the study sample was 11.8g/dl (SD 1.02g/dl and IQR 112-12501). Sensitivity and Specificity of the haemoglobin colour scale method was 50% (95% CI 20.0-71.0%) and 76.3% (95% CI 66.9-83.7%) respectively. Sensitivity and specificity of conjunctival method in detecting anaemia during pregnancy was 18.8% (95% CI 11.9-28.4) and 69.3% (95% CI 58.2-78.6%)

*Source: Chathurani U et al. Anaemia in pregnancy in the District of Anuradhapura, Sri Lanka need for updating prevalence data and screening strategies: Ceylon Medical Journal. 2012 Sep; 57(3):101-6*

- 1.1. What is the study design? ( 10 Marks)
- 1.2. Define the terms given in Bold. (35 Marks)
- 1.3. Based on the findings of this study, give 2 recommendations which will be useful to field health staff (20 Marks)
- 1.4. Describe the importance of screening for anaemia in pregnant mothers (3 5 Marks)

2.

- 2.1. Explain "Surveillance Case Definition" (30 Marks)
- 2.2. Discuss the mechanism of Morbidity and mortality data collection in Sri Lanka (40 Marks)
- 2.3. Mr Kandiah Selvakumaran aged 59 years was admitted to Jaffna Teaching Hospital at 7 pm on 15/07/2013, with a history of severe chest pain and sweating. ECG showed Q waves with ST elevation. He was treated as a patient suffering from Acute Myocardial Infarction. He had been previously treated for Diabetes Mellitus and Hypertension. In spite of treatment he passed away at 8 pm on 18/07/2013  
Write a Certificate of cause of Death ( 30 Marks)

**3. During one of your routine home visits you met an 82 years-old retired teacher Mrs. Rajarathinam. She is a widow and is living alone**

- 3.1. List Five Health problems Mrs. Rajarathinam may have ( 15 Marks)**
- 3.2. Discuss how you could assess Mrs. Rajarathinam's health status during your home visit ( 35 Marks)**
- 3.3. Briefly describe how you could provide a "coordination of Care" to her. ( 35 Marks)**
- 3.4. List five indications for a home visit (15 Marks)**

**A research study is planned, to assess the association between cigarette smoking and deaths due to coronary heart disease.**

- 4.1. Write the hypothesis for this study ( 20 Marks)**
- 4.2. Write down the most suitable study design to confirm the hypothesis and give reasons (40 Marks)**
- 4.3. Briefly describe the plan for data analysis in order to confirm the hypothesis ( 40 Marks)**

**5.**

- 5.1. Describe the types of Hospital waste and discuss the methods of disposal of hospital waste ( 70 Marks)**
- 51. Briefly describe how hospital waste is disposed at Jaffna Teaching Hospital, and suggest improvements needed (30 Marks)**

**Write short Notes on**

- 6.1 Smoking cessation programmes (25 Marks)**
- 6.2. Natural disasters and their prevention ( 25 Marks)**
- 6.3. Ethics in medical Practice ( 25 Marks)**
- 6.4. Medical Audit ( 25 Marks)**