UNIVERSITY OF RUHUNA
FACULTY OF MEDICINE

THIRD EXAMINATION FOR MEDICAL DEGREES PART II, DECEMBER 2009
COMMUNITY MEDICINE PAPER I

Answer **ALL FIVE** questions   Time : 09.00am – 12noon
Answer each part in a *SEPARATE* book. Begin each answer in a *New Page.*   **Duration: Three Hours**

PART A

1.

1.1 1.1.1 Describe briefly how the population structure has changed in Sri Lanka over the past few
decades, using population pyramids.   *(30 marks)*

1.1.2 Describe briefly the health and socio-economic problems that Sri Lanka would face due to
population aging?   *(20 marks)*

1.2 Describe the usefulness of the following.

1.2.1 Child Health Development Record(CHDR).   *(25 marks)*   effectivity of intervention.

1.2.2 Pregnancy Record.   *(25 marks)*

PART B

2.

2.1 You are invited by the welfare society of your village to advice its members on sanitary methods
of waste disposal suitable for a rural area.

2.1.1 What are the methods that you would advise them to practice?   *(20 marks)*

2.1.2 Discuss the advantages and disadvantages of each of the above methods.   *(30 marks)*

2.2 2.2.1 Discuss the importance and limitations of the use of anthropometry in the assessment of
nutritional status.   *(25 marks)*

2.2.2 What are the factors that increase the risk of iron deficiency in Sri Lankan pre-school
children?   *(25 marks)*

PART C

3.

3.1 3.1.1 Describe the main causes of occupational accidents?   *(25 marks)*

3.1.2 What measures would you take to prevent them ?   *(25 marks)*

3.2 3.2.1 Write the different components of the safe motherhood programme.   *(20 marks)*

3.2.2 Describe how these services are provided to the mothers in Sri Lanka.   *(30 marks)*

PART D

4.

4.1 Describe the different levels of prevention with regard to "Prevention of cerebro vascular accidents (CVA) in Sri Lanka. *(50 marks)*

Epi 4.2 The results of a new screening test for cancer has been tested and the results are as follows.

Test Status	True disease status	
	Disease +	Disease -
Test positive	16	2 000
Test negative	04	18 000

4.2.1 Comment on the sensitivity and specificity of the new test. *(25 marks)*

4.2.2 Would you recommend this test for general use in the community? *(25 marks)* — PPV

PART E

5.

5.1 Write short notes on:

5.1.1 Measurements of central tendency and dispersion of a data set. *(30 marks)*

5.1.2 The importance of medical statistics in medical education. *(20 marks)*

Stat 5.2 A cross-sectional study was conducted to find the association between exposure to domestic violence and gender in a sample of young people. A sample of 100 males and 100 females were surveyed. Thirty (30) males and sixty (60) females reported having being subjected to domestic violence in the past.

5.2.1 State your hypothesis (Null & Alternate) and test it at $\alpha = 0.05$ level. *(40 marks)*

5.2.2 What are your conclusions. *(10 marks)*

Critical values of Chi square

df.	0.05	0.01
1	3.84	6.64
2	5.99	9.21
3	7.82	11.34
4	9.49	13.28