

UNIVERSITY OF RUHUNA
FACULTY OF MEDICINE



THIRD EXAMINATION FOR MEDICAL DEGREES PART II, 25th APRIL 2002
COMMUNITY MEDICINE PAPER I

Answer **ALL FIVE** questions

Answer Part A, Part B and Part C in **SEPARATE** books

Duration: *Three Hours*

Part A

1. Write notes on the following

1.1 The role of a Public Health Midwife (PHM) in the delivery of antenatal care in a PHM division in Sri Lanka.

(30 marks)

1.2 The immunization schedule for children and the assessment of age appropriate immunization.

(30 marks)

1.3 The usefulness of the Child Health Development Record (CHDR).

(40 marks)

2. Write notes on the following.

2.1 Methods available for assessment of nutritional status of infants and pre-school children.

(50 marks)

2.2 Prevention of oral cancer in Sri Lanka.

(25 marks)

2.3 Prevention of health hazards associated with blood transfusion.

(25 marks)

Part B

3.

3.1 Write notes on the following.

3.1.1 Health hazards due to consumption of contaminated and polluted water.

(25 marks)

3.1.2 Purification of water for mass distribution.

(25 marks)

3.2 Compare age/sex distributions (Age pyramids) for developing and developed countries.

(20 marks)

3.3 Define fertility as used in demography.

(10 marks)

3.4 List fertility measurements

(20 marks)

4.

4.1 List different types of epidemiological studies.

(10 marks)

4.2 Describe **any one** of the study types you have listed.

(20 marks)

4.3 Define the following terms

4.3.1 Sensitivity

(10 marks)

4.3.2 Specificity

(10 marks)

4.3.3 Odds ratio

(10 marks)

4.3.4 Incidence of a disease

(10 marks)

4.4 The following data was obtained from a cohort study.

Total number of persons followed up for 3 years = 3000

Number of persons who had the exposure at the beginning of the study = 500

Number of exposed persons who developed the disease during the 3 years = 200

Number of non exposed persons who developed the disease during the 3 years = 100

4.4.1 Draw a 2 x 2 table

(5 marks)

4.4.2 Calculate the relative risk and interpret the results

(25 marks)

Part C

5.

5.1 The heights of 2610 pregnant mothers were measured. The mean height was 65 inches and the standard deviation was 3 inches. These heights were normally distributed.

Using the above information calculate the number of pregnant mothers falling between 60 inches and 63 inches.

(50 marks)

Area under the Normal Curve between \bar{x} and z

Z	0.01	0.03	0.05	0.07	
0.3	12.17	12.93	13.68	14.43	15.17
0.6	22.91	23.57	24.22	24.86	25.49
1.5	43.45	43.70	43.94	44.18	44.41
1.6	44.63	44.84	45.05	45.25	45.45
1.7	45.64	45.82	45.99	46.16	46.33
1.8	46.49	46.64	46.78	46.93	47.06

5.2.1 Define a variable

(10 marks)

5.2.2 List different types of variables with two examples for each.

(20 marks)

5.3 Explain the 95% confidence interval of a mean.

(20 marks)