



THIRD EXAMINATION FOR MEDICAL DEGREES PART II, DECEMBER 2011
COMMUNITY MEDICINE PAPER I

Answer **ALL FIVE** questions.

Answer each part in a **SEPARATE** book.

Time : 09.00 am – 12 noon

Duration : Three Hours

PART A

- 1.
- 1.1 Briefly describe the factors that have caused a change in fertility levels in Sri Lanka. (50 marks)
 - 1.2 List the different mortality indicators of infancy and explain their significance. (20 marks)
 - 1.3 Briefly describe the main activities carried out in a field child health clinic. (30 marks)

PART B

- 2.
- 2.1 Briefly describe the adverse health effects of environmental pollution due to chemical pollutants. (50 marks)
 - 2.2 Describe the occupational health problems of cement factory workers in Sri Lanka. (50 marks)

PART C

- 3.
- 3.1 Describe the different methods of evaluation of
 - 3.1.1 process of screening. (25 marks)
 - 3.1.2 outcome of screening. (25 marks)

- 3.2 A screening programme was performed using direct ophthalmoscopy as the screening tool by two examiners to detect Diabetic Retinopathy (DR). Findings were summarized in the table below. (DR+ indicates presence of DR, DR- indicates absence of DR)

		Screener 1		Total
		DR +	DR -	
Screener 2	DR +	10	5	15
	DR -	5	80	85
	Total	15	85	100

Agreement of the findings by the two examiners.

(50 marks)

PART D

4. 4.1 "Behavioral modification is the best approach to improve health and quality of life of populations". Discuss the above statement. (20 marks)

4.2. Write short notes on

4.2.1 normal distribution (10 marks)

4.2.2 correlation (10 marks)

4.2.3 measures of dispersion (10 marks)

4.3 A study was conducted to see the relationship between alcohol use and smoking. Results are given below.

		Alcohol use	
		Yes	No
Smoking	Yes	200	60
	No	100	300

4.3.1 State null and alternative hypotheses. (10 marks)

4.3.2 Test the null hypothesis at 5% level. (40 marks)

PART E

5.

5.1 Do pregnant women need vitamin and mineral supplements? Justify your answer. (35 marks)

5.2 Explain why iron is an important micronutrient in the diet of preschoolers. (30 marks)

5.3 Discuss the main barriers to healthy nutrition in adolescence. (35 marks)