



Faculty of Medicine, University of Ruhuna

Third Examination for Medical Degrees (Part II) -6th April 2017
Community Medicine Paper I

Thursday 6th April 2017

9.00 am to 12.00 Noon
Three hours

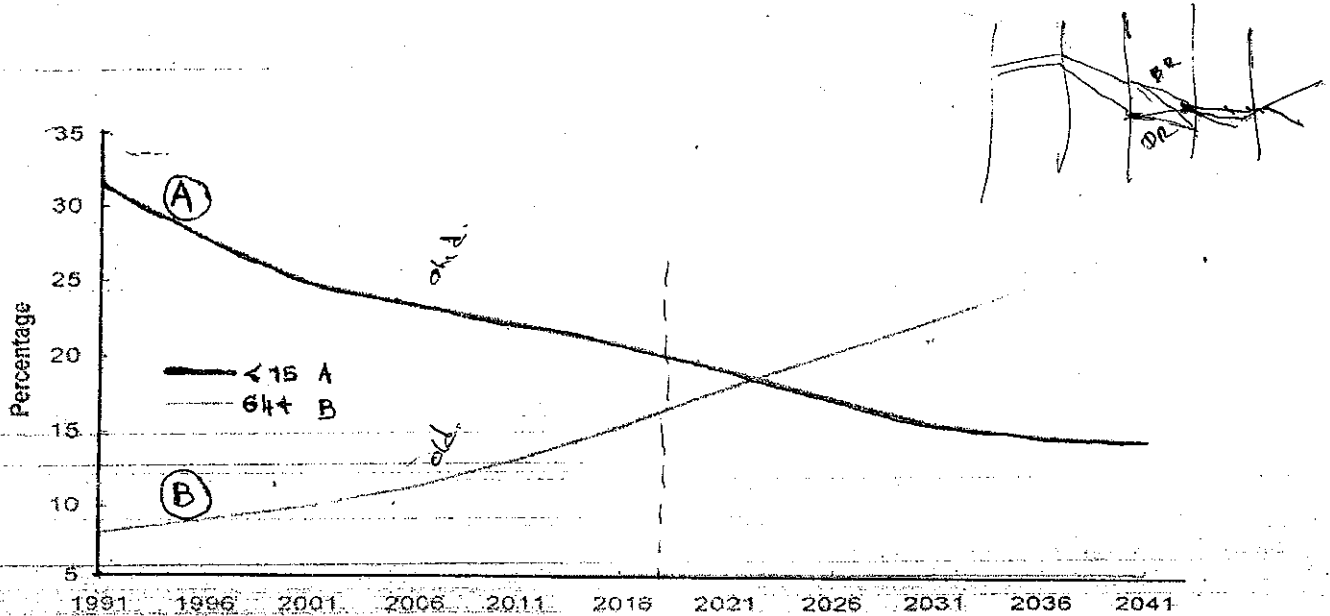
35 repeat.

Answer ALL FIVE questions.

Answer each part in a SEPARATE book.

PART A

(1) 1.1 The following graph shows relative percentage of children below 15 years and elderly over 64 years in Sri Lanka with standard projections



- ✓ 1.1.1. Define young dependency ratio and old dependency ratio. (10 marks)
- ✓ 1.1.2 Briefly describe the above graph. (20 marks)
- ✓ 1.1.3 What are the problems that Sri Lanka will encounter if the population continues to change according to the above graph (20 marks)

1.2 Using graphical presentation briefly describe how the Family Health Programme of Sri Lanka provides a continuum of care to the community. (50 marks)

PART B

- (2)
- 2.1 Aging process is associated with changes in the structure and functions of the body, which can affect the nutritional status.
 - ✓ 2.1.1 Briefly describe **five** changes in body functions that can affect nutritional status. (20 marks)
 - ✓ 2.1.2 Outline the management of under nutrition in elderly giving examples where necessary. (30 marks)

2.2

- 2.2.1 Define health promotion. (10 marks)
- 2.2.2 List the 5 action areas of health promotion described under the Ottawa Charter. (20 marks)
- 2.2.3 Describe the difference between health education and health promotion. (20 marks)

PART C

(3) 3.1 A 20-year-old previously healthy university student had experienced recurrent respiratory tract irritation, skin irritation, headache, dizziness, nausea and fatigue while staying at boarding place. Those symptoms ceased when he changed the boarding place.

- 3.1.1 What is the probable diagnosis? *sick building syndrome* (05 marks)
- 3.1.2 List three other disease conditions that can occur due to unhealthy indoor environment. (15 marks)
- 3.1.3 Describe the health effects due to chronic exposure to air pollution with examples. (30 marks)

3.2

- 3.2.1 List the occupational health problems of female garment factory workers in Sri Lanka. (15 marks)
- 3.2.2 How would you prevent above mentioned occupational health problems of female garment factory workers in Sri Lanka? (35 marks)

PART D

(4) A public health researcher wishes to know whether there is a gender difference of dementia in older people. A psychiatrist examined 100 older women and 100 older men to detect those with dementia. Thirty (30) older women and 40 older men were positive with dementia.

- 4.1 What are the variables used in this study? (20 marks)
- 4.2 State null and alternative hypothesis of this study (20 marks)
- 4.3 Test the null hypothesis at 5% significant level (40 marks)
- 4.4 What is the conclusion that you can draw based on the results? (20 marks)

PART E

(5) 5.1 Name and briefly explain the different levels of prevention in relation to prevention of road traffic accidents (40 marks)

5.2 Explain the following

- 5.2.1 Period prevalence (20 marks)
- 5.2.2 Incidence density (20 marks)
- 5.2.3 Attributable risk (20 marks)