

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO



**SELECTION EXAMINATION FOR MD (COMMUNITY MEDICINE/
COMMUNITY DENTISTRY) – MARCH 2016**

Date :- 30th March 2016

Time :- 1.00 p.m. – 2.00 p.m.

Answer **all** questions.

Answer each question in a separate book.

1. A case-control study was conducted to determine the factors associated with institutionalisation of the elderly in a district in Sri Lanka. The cases were elders living in homes-for-the-aged in that district.
 - 1.1. Define the most suitable control group for this study, giving reasons for your selection. (25marks)
 - 1.2. In this study, four controls per case were selected. Discuss the advantages and disadvantages of this strategy. (20 marks)
 - 1.3. An interviewer administered questionnaire was used to collect data from the participants. Describe the ethical considerations that have to be addressed during data collection. (20 marks)
 - 1.4. The following results were obtained.
“The Odds Ratio (OR) of an elderly person having a spouse with disabilities was 4.68 (95% confidence interval = 0.72 to 51.35).”
Interpret the above results. (35 marks)
2. You plan to design a study to evaluate the effectiveness of ‘healthy workplace concept’ in promoting healthy lifestyles among workers.
 - 2.1. What is the most suitable study design? Give reasons for your answer. (15 marks)
 - 2.2. Describe the sampling method you would use in this study. (20 marks)

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- 2.3. Describe the precautions to be taken to minimize measurement errors during data collection in this study. (25 marks)
- 2.4. The following results were obtained:

Workers in 'healthy workplace concept'	No. of workers with reduced sugar consumption by 50%	
	Yes	No
Yes	60	140
No	60	240

Interpret the above results using an appropriate statistical test. (40 marks)