

**POSTGRADUATE INSTITUTE OF MEDICINE**  
**UNIVERSITY OF COLOMBO**

**SELECTION EXAMINATION FOR MD (COMMUNITY MEDICINE/  
COMMUNITY DENTISTRY)**  
**AUGUST, 2015**

Date : 24<sup>th</sup> August, 2015

Time:1.00 p.m. - 2.00 p.m.

**PAPER I**

**Answer all two questions.**

**Answer each question in a separate book.**

1. The following extracts are from a research paper  
“ **Methods** – A descriptive cross sectional study was carried out among 10 year old students in government schools in Gampaha MOH area to determine the prevalence of obesity among 10 year old children living in Gampaha MOH area. Nine schools from a total of 46 were selected applying multistage stratified cluster sampling methods.”  
  
“ **Results** – Among the 1110 children included in the study the prevalence of obesity was 2.2% (95% CI: 1.3 – 3.0).”
  - 1.1. Explain briefly the need for stratification in sampling for this study. (20 marks)
  - 1.2. Explain briefly the advantages and disadvantages of cluster sampling in this study. (30 marks)
  - 1.3. Do you think the sample would have been representative of the 10 year old children living in the Gampaha MOH area ? Give a brief justification for your response. (20 marks)
  - 1.4. Explain briefly the results in non-technical terms. (30 marks)
2. Discuss the role of research and epidemiology in dealing with the problem of chronic kidney disease of unknown origin in Sri Lanka. (100 marks)