

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION FOR MD (COMMUNITY
MEDICINE/COMMUNITY DENTISTRY) – OCTOBER 2022

Date:- 20th October 2022

Time:- 9.00 a.m. – 10.00 a.m.

Answer both questions.

Answer each question in a separate book.

1. Claims are made by various persons that the current economic crisis in Sri Lanka has increased malnutrition among children under five years of age and pregnant women.

1.1. Describe how routine data sources can be used to assess the trends in the level of malnutrition among

1.1.1. children under five years of age. (20 marks)

1.1.2. pregnant women. (20 marks)

1.2. Describe and justify the methodology of a study you would carry out to assess the current nutritional status of children under five years of age in Sri Lanka. (60 marks)

2. A researcher wants to explore the association between being vaccinated against measles and inflammatory bowel disease (Crohn's disease and ulcerative colitis).

2.1. List with justification three (03) possible epidemiological study designs to explore this association. (30 marks)

2.2. Describe three (03) biases associated with one (01) of the study designs listed in 2.1. (30 marks)

2.3. Interpret the findings in the table given below. (25 marks)

Table: Vaccination status and risk of inflammatory bowel disease (odds ratios and 95% confidence intervals)

Vaccination status	Crohn's disease	Ulcerative colitis
Vaccinated against measles	1.22 (0.91 - 1.73)	0.73 (0.61 - 0.97)
Unvaccinated	Reference	Reference

2.4. List three (03) possible confounding factors that may have influenced this result. (15 marks)

