

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION FOR MSc (COMMUNITY DENTISTRY)
SEPTEMBER 2022

Date: 22nd September 2022

Time: 9.00 a.m. – 12.00 noon

Answer **all five** questions.
Answer each question in a **separate book**.

PART A

1. The economic crisis prevailing in the country could impact on oral healthcare provision to the public. Even in the western world, dental professionals are concerned about the “shortened dental arch concept” to overcome the challenges of the economic crisis.

HA

1.1. Explain the term “shortened dental arch concept”. (20 marks)

1.2. Describe in detail the possible approaches to provide better oral healthcare to the Sri Lankan community during the economic crisis. (60 marks)

1.3. As a Regional Dental Surgeon, list five (05) new strategies that you would incorporate into the district oral health plan in the coming year. (20 marks)

2. A Dental Public Health Specialist in the Preventive Oral Health Unit at the Institute of Oral Health, Maharagama has observed that the DMFT of a pregnant mother seeking care from the unit was 8, full of plaque in the lower anterior region and generalized gingival bleeding.

NW

2.1. As a house officer in that unit, list five (05) additional considerations that you would take into account in planning the individual health education session. (20 marks)

2.2. Discuss the content that should be included in the health education session. (70 marks)

2.3. List two (02) modes of delivery that you will use in the health education sessions. (10 marks)



3. Critically discuss the following statements.

3.1. Early childhood caries, a significant public health problem in the general population, is more pronounced in vulnerable populations. (50 marks)

3.2. The burden of periodontal disease increased globally by 57.3% from 1990 to 2010. It was responsible for 3.5 million years lived with disability according to the Global Burden of Disease Study in 2015. (50 marks)

Part B

4.

4.1. State the most appropriate statistical test in the following situations giving reasons:

4.1.1. To compare mean haemoglobin levels between strict vegetarian (vegans) and non-vegetarian undergraduates in a Medical Faculty. (20 marks)

4.1.2. To measure impact of a dietary intervention measured as weight loss in kg among a group of obese adults. (20 marks)

4.1.3. To determine the association between BMI in kgm^{-2} and systolic blood pressure in mmHg. (20 marks)

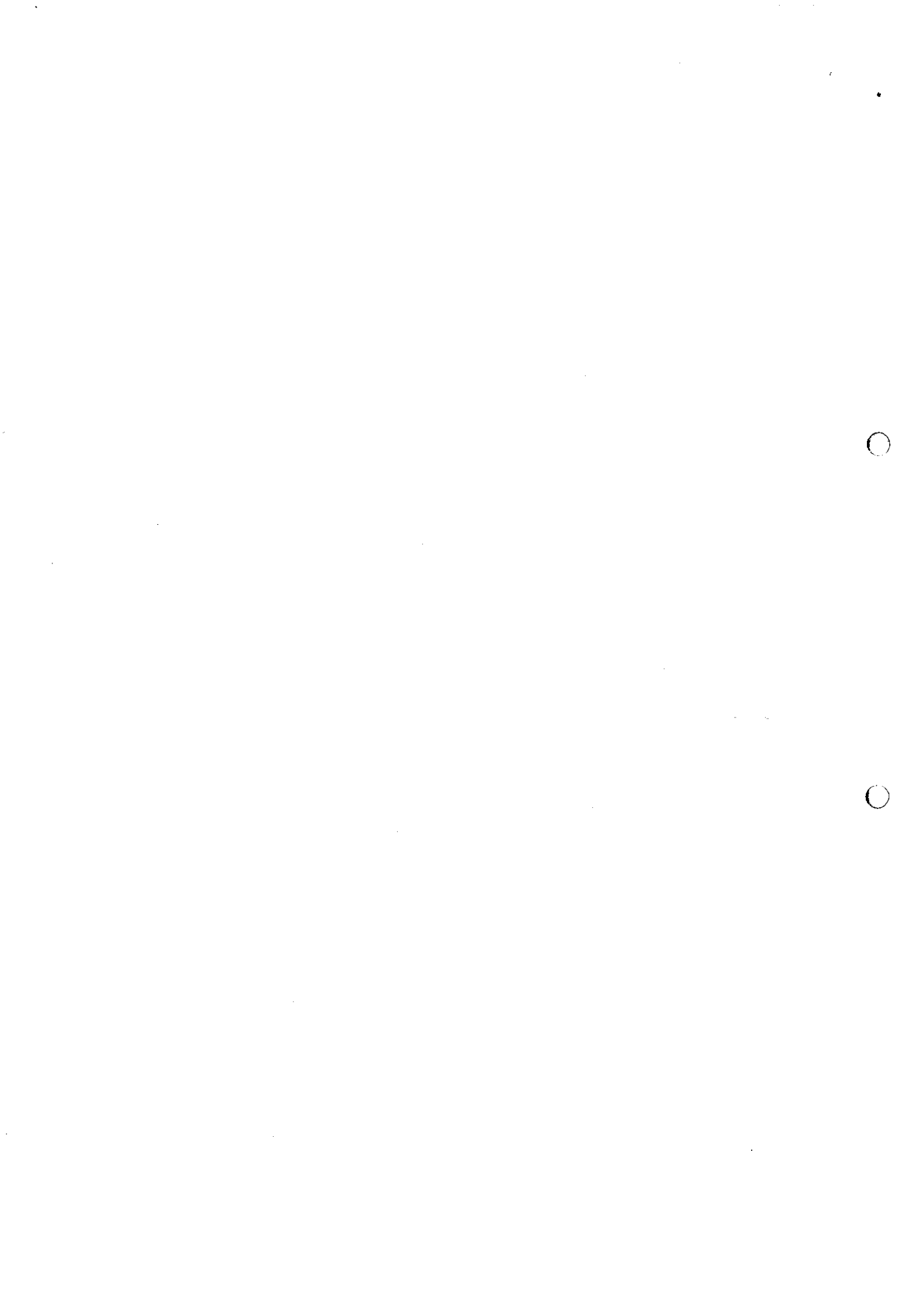
4.2. A cross-sectional study was conducted to find the association between employment status of the women and intimate partner violence during the last 12 months. The results are given in Table 1 below:

Table 1: Association between employment status of the women and intimate partner violence during the last 12 months

		Intimate partner violence		χ^2 ; df; p
		Yes N (%)	No N (%)	
Employment status	Employed	112 (17.9)	512 (82.1)	27.4; 1; <0.001
	Unemployed	328 (29.4)	788 (70.6)	
Total		440 (25.3)	1300 (74.7)	

Comment on the appropriateness of the test and interpret the findings. (40 marks)

Contd...../3-



5.

5.1. It has been reported in the media that the child malnutrition level has significantly increased during the current economic crisis in Sri Lanka. Discuss how you would verify the validity of this statement. (50 marks)

5.2. Sri Lanka is considered as the country with the highest proportion of older adults in South Asia. Briefly describe the public health implications of population ageing. (50 marks)

