

Master Cpm

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION FOR MD IN HEALTH INFORMATICS
DECEMBER 2024

Date: 4th December 2024

Time: 1.00 p.m. - 3.00 p.m.

STRUCTURED ESSAY QUESTIONS

PAPER II
HEALTH

Answer **all four (04)** questions.

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

1.
 - 1.1. Explain the factors that contribute to climate change. (30 marks)
 - 1.2. Briefly describe how climate change impact health. (40 marks)
 - 1.3. Outline the steps that can be taken to mitigate climate change. (30 marks)
2. Demographic Transition refers to the transformation of a country's population structure as it undergoes economic development.
 - 2.1. Explain how low birth rates and increased life expectancy impact on the population structure of Sri Lanka during the next 3 decades. (50 marks)
 - 2.2. Explain how the health services should be changed to accommodate the changes in the population structure of Sri Lanka in the future. (50 marks)
3. The burden of disease in Sri Lanka has undergone dramatic changes with reduction of communicable disorders and increase in non-communicable disorders.
 - 3.1. Explain the factors that have contributed to the change in the burden of disease in the country. (50 marks)
 - 3.2. Explain how the health services should be changed to accommodate the changes in burden of disease of Sri Lanka in the future. (50 marks)
4. The disruption of supply chains have resulted in shortage of drugs and devices.
 - 4.1. Explain how disruption of supply chains have impacted the Sri Lankan health care system. (50 marks)
 - 4.2. Explain the measures that could be taken to overcome the supply chain disruption. (50 marks)

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DECEMBER 2024

Date: 4th December 2024

Time: 9.30 a.m. – 11.30 a.m.

STRUCTURED ESSAY QUESTIONS

PAPER I

INFORMATION AND COMMUNICATION TECHNOLOGY

Answer **all four (04)** questions.

Answer each question in a separate book.

1.

1.1. Describe telemedicine services available in Sri Lanka. (50 marks)

1.2. Explain how telemedicine services can be used to improve access to health care services using examples of applications. (50 marks)

2.

2.1. Explain how prescription practices and medication safety can be improved using digital technologies. (50 marks)

2.2. Explain how medication adherence can be improved using digital technologies. (50 marks)

3.

3.1. Explain the policies that can be adopted to overcome fragmented patient records across multiple providers using digital technologies. (50 marks)

3.2. Describe how openHIE can be used as the interoperability framework to enable digital health in Sri Lanka. (50 marks)

4.

4.1. Explain the steps that can be taken to overcome vulnerabilities in digital health systems to ensure health data privacy and security. (50 marks)

4.2. Data Protection Act, No. 9 of 2022 provides a legal framework for protecting personal data, including health data, which is categorized as a special category of data requiring enhanced protection. Describe the specific protections relevant to health data in a legal context. (50 marks)