

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION FOR MD IN HEALTH INFORMATICS
JANUARY 2026

Date:- 8th January 2026

Time:- 9.30 a.m. - 11.30 a.m.

PAPER I
STRUCTURED ESSAY QUESTIONS

Master copy

INFORMATION AND COMMUNICATION TECHNOLOGY

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

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

1.

- 1.1. Describe how Information and Communication Technology (ICT) is used to support health system functions such as service delivery, surveillance, and decision-making in disaster management in a health sector. (40 marks)

- 1.2. Critically discuss the challenges and limitations of implementing ICT-based health information systems in low and middle-income countries, with reference to Sri Lanka. (60 marks)

2.

- 2.1. Explain the role of Electronic Health Records (EHRs) in improving safety and quality to provide continuous patient care. (40 marks)
- 2.2. Discuss five (05) key issues related to data standards, interoperability, and data quality that must be addressed for effective national EHR implementation. (60 marks)

3.

- 3.1. Describe the applications of telemedicine in providing specialized clinical care in primary healthcare settings in Sri Lanka. (50 marks)
- 3.2. Evaluate the ethical, legal, and regulatory considerations associated with telemedicine practice in Sri Lanka. (50 marks)

4.

- 4.1. Explain how Clinical Decision Support Systems (CDSS) and health analytics contribute to evidence-based clinical and public health decision-making. (40 marks)
- 4.2. Discuss the importance of data governance, privacy, and cybersecurity in medical informatics systems handling sensitive health data. (60 marks)

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SELECTION EXAMINATION FOR MD IN HEALTH INFORMATICS
JANUARY 2026

Date:- 8th January 2026

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

PAPER II
STRUCTURED ESSAY QUESTIONS

HEALTH

Master copy

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

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

1.

- 1.1. Describe the major components of healthcare costs and explain how health information systems can support cost monitoring and financial decision-making in the health sector in Sri Lanka. (40 marks)
- 1.2. Discuss how the use of health informatics can improve efficiency, cost-effectiveness, and resource allocation within a publicly funded healthcare system such as Sri Lanka's. (60 marks)

2.

- 2.1. Explain how gender disparities influence health outcomes, access to care, and health service utilization. (40 marks)
- 2.2. Critically discuss the role of health information systems and disaggregated data in identifying, monitoring, and addressing gender inequities in healthcare. (60 marks)

3.

- 3.1. Describe the characteristics of Generation Z that influence their health-seeking behaviour and interaction with digital health technologies. (50 marks)
- 3.2. Evaluate the opportunities and challenges of designing digital health interventions and health information systems to effectively engage Generation Z. (50 marks)

4.

- 4.1. Explain the importance of health literacy in achieving effective use of health services and positive health outcomes. (40 marks)
- 4.2. Discuss how digital health tools and health informatics interventions can be used to improve health literacy while minimizing risks related to misinformation and the digital divide. (60 marks)