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POSTGRADUTE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION FOR MD IN HEALTH INFORMATICS –
NOVEMBER 2018

Date: 29th November 2018

Time: 9.30 am – 11.30 am

STRUCTURED ESSAY QUESTIONS

PAPER I

INFORMATION & COMMUNICATION TECHNOLOGY

Answer all four (04) questions.

Answer each question in a separate book.

1.

Discuss opportunities created and the challenges that may be experienced when implementing an online training platform for continuous professional development (CPD) among medical doctors in the state health sector in a low resource context. You may discuss advantages in adopting e-learning platforms for CPD among doctors, the cost effectiveness, available technologies, technology challenges and user acceptance in relation to low resource contexts.

(100 Marks)

2.

2.1. Define and describe “Swiss Challenge”

(40 marks)

2.2. Critically discuss the use of unsolicited bidding in public-private ICT partnerships in the state health sector development

(60 marks)

3.

3.1 Discuss how open source licensing might affect the open source acquisition in health sector. You may elaborate your answer with appropriate examples

(50marks)

3.2. "Open source paradigm is rapidly shifting towards commercial open source"

Critically evaluate the above statement

(50 marks)

4.

4.1. Briefly discuss the challenges of computerizing Maternal and Child Health (MCH) in Sri Lanka

(40 marks)

4.2. Suggest integration of DHIS2 based MCH information system with the proposed *cluster-based approach* in strengthening of primary health care in Sri Lanka.

(60 marks)

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SELECTION EXAMINATION FOR MD IN HEALTH INFORMATICS –
NOVEMBER 2018

Date: 29th November 2018

Time: 1.00 pm – 3.00 pm

STRUCTURED ESSAY QUESTIONS

PAPER II

HEALTH

Answer all four (04) questions.

Answer each question in a separate book.

1.

1.1. Compare and contrast privacy, confidentiality, and security in the context of Public Health Informatics

(40 marks)

1.2. "Chinese Scientist Reportedly Creates Genetically Engineered Babies Immune to HIV".

There is no scientific consensus on the ethics of editing genes in human embryos for the purpose of reproduction, but now we may be seeing the world's first "designer babies"

Discuss the ethical considerations of such genetic interventions

(60 marks)

2.

2.1. Define and briefly discuss "Risk factor information systems"

(30 marks)

2.2. Discuss how such a system complement scientific research and vital statistics

(70 marks)

3.

3.1. List the components of public health infrastructure (30 marks)

3.2. Discuss the challenges faced by public health infrastructure and how public health organizations may respond to such challenges (70 marks)

4.

“Fifteen of the Sustainable Development Goals (SDG) and Twenty four of the SDG targets require Civil Registration and Vital Statistics (CRVS) data for measuring their indicators, in particular, numerators”

4.1. Describe the CRVS system (30 marks)

4.2. Briefly describe the importance of CRVS system in strengthening of health systems (40 marks)

4.3. List the challenges and barriers in implementing CRVS (30 marks)