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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION FOR MD IN HEALTH INFORMATICS
FEBRUARY 2021

Date: 2nd February 2021

Time: 9.30 a.m. – 11.30 a.m.

STRUCTURED ESSAY QUESTIONS

PAPER I
(INFORMATION & COMMUNICATION TECHNOLOGY)

Answer all four (04) questions.
Answer each question in a separate book.

1. Covid 19 causing special challenges for vaccination schedule; significant proportion of the population has to be vaccinated within a short period of time with two consecutive doses of the same brand.
 - 1.1. Critically evaluate the current use of ICT technologies in managing current vaccine deployment in Sri Lanka. (50 marks)
 - 1.2. Briefly discuss issues that may be encountered in real time data capturing in surveillance. (20 marks)
 - 1.3. As adverse reaction after vaccination is an element to be followed, suggest a mechanism to immediately extract necessary data form the information systems. (30 marks)

2. Present situation of health data in Institution A is on a Local server and in Institute B is on the Cloud.
 - 2.1. Draw up a conceptual diagram including all the technical details how you would make the data available for national health records. (100 marks)

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3. There are multiple challenges of setting a Cohort study on health behaviors in which data ~~form~~ ^{from} a survey could be combined with other sources.
- 3.1. What data protection principles would have to be considered in obtaining data from multiple sources. (40 marks)
- 3.2. Describe how you deal with a situation ^{where you have} ~~that you~~ would encountered a disclosure issues ^{with} a participant. (60 marks)
Regarding
4. Health data protection is an important element.
- 4.1. Discuss the issue of portability of National Health Record in data sharing with private health care providers. (50 marks)
- 4.2. Describe mechanism you could suggest to overcome above issues depicting into international examples. (50 marks)

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POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

SELECTION EXAMINATION FOR MD IN HEALTH INFORMATICS
FEBRUARY 2021

Date: 2nd February 2021

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. Preventive health sector is facing numerous challenges with the emergence of Covid-19.

Write short notes on:

- 1.1. Contact tracing and immediate reporting (25 marks)
- 1.2. Issues encountered in coordination (25 marks)
- 1.3. Compare and ^{contrast} Antigen and PCR test (25 marks)
- 1.4. Effects on NCD management (25 marks)

2. Benchmarking and Ratings are of important constitutions in health care institutes.
 - 2.1. Suggest a system of benchmarking and rating of health institution. (20 marks)
 - 2.2. How it differs from quality health care? (20 makes)
 - 2.3. Draw up a Health Informatics plan that could be used to address above. (60 marks)

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3. Number of stakeholders such as Armed Forces supported Health System to manage Covid situation in Sri Lanka. How would you suggest to integrate different contributions made by them for future enhancement of health care services in Sri Lanka. (100 marks)

4. Modern Health Care provision has different models.
 - 4.1. What suggestions you could make in improving health tourism in Sri Lanka? (30 marks)

 - 4.2. Suggest strategies that you would take to minimize antimicrobial resistance. (30 marks)

 - 4.3. How do you propose to use Health Insurance Schemes to ensure sustainability of free health services in Sri Lanka. (40 marks)