

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (MEDICAL ADMINISTRATION) PART I EXAMINATION
(2019 PROSPECTUS) – JULY 2020

Date :- 2nd July 2020

Time :- 9.00 a.m. – 12.00 noon

PAPER I

Answer **all five (05)** questions.

Answer each question in a separate book.

1.
 - 1.1. Discuss the statement “Strength of Randomized Control Trials lies in the process of randomization”. (50 marks)
 - 1.2. Illustrate methods of randomization with examples. (25 marks)
 - 1.3. Discuss Advantages and disadvantages of Randomized Control Trials. (25 marks)
2. Critique the statement: “Policy making is purely a political process which is always linear” (100 marks)
3.
 - 3.1. For the following data: 3,6,9,10,15,28,21,27,42,84: draw a stem and leaf plot (10 marks)
 - 3.2. List two (02) characteristics for each of the following:
 - 3.2.1. Inter-quartile range (05 marks)
 - 3.2.2. Standard error of the sample mean (05 marks)
 - 3.2.3. Coefficient of variation (05 marks)
 - 3.2.4. Significance level (05 marks)
 - 3.3. A test has a mean score of 150 and a standard deviation of 20. If a student’s Z-score is 1.50, what will be his score on the test? (30 marks)

Contd.../2-

- 3.4. A researcher is trying to examine the effects of two different teaching methods. He divides 20 students into two groups of 10 each. For group 1, the teaching method is using fun games. Whereas, for group 2, the teaching method is using a software. After a 20 minutes session for both groups, a test was carried out for all the students. Researcher wants to calculate if there is a significant difference in the scores of both the groups.

Using the following findings answer the two questions given below.

Significance level=5% two tailed; mean test score for group 1 =10;
Mean test score for group 2=7 and the standard error = 0.94

- 3.4.1. Find the value of t-statistic. (15 marks)
- 3.4.2. Is there a statistically significant difference in the scores of the two groups? (25 marks)
- 4.
- 4.1. Differentiate between qualitative and quantitative research. (20 marks)
- 4.2. In a Teaching Hospital X, there was a disruption of services in the labour room due to conflicts between midwifery trained Nursing Officers and hospital Midwives regarding carrying out their duties. Director noticed that there has been considerable deterioration of quality of maternal care services due to this situation.
- 4.2.1. As a Senior Registrar how will you design an interventional project to solve this issue. (40 marks)
- 4.2.2. Discuss with examples the importance of qualitative research when solving above managerial issue in this Teaching Hospital. (40 marks)
5. A private sector company had offered support to the Ministry of Health for the COVID-19 outbreak response. One of the main areas of private sector support offered was on digital systems, free of charge for this outbreak. The Health Information Unit of Management, Development and Planning Unit had to manage such offers considering multiple factors.
- 5.1. List five (05) positive outcomes of private public partnerships in digital system implementation in the above instance. (20 marks)
- 5.2. Briefly outline five (05) negative outcomes of public private partnerships in digital system implementation in the above instance. (30 marks)
- 5.3. Discuss with examples, strategies to overcome such negative outcomes. Clearly mention the roles of different experts in planning and implementing such strategies. (50 marks)

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Date :- 2nd July 2020

Time :- 1.00 p.m. – 4.00 p.m.

PAPER II

Answer **all five (05)** questions.

Answer each question in a separate book.

1.

1.1. Discuss the importance of 'Theory of Change' for organizational sustainability. (50marks)

1.2. How do you apply 'Theory of Change' for successfully implementing the 'cluster system' in the primary healthcare strengthening project in a Regional Director of Health Services area. (50 marks)

2.

2.1. Discuss the importance of Integrated Care Pathways for ensuring effective Clinical Governance. (20 marks)

2.2. Outline with an example five steps in implementing the Integrated Care Pathways. (30 marks)

2.3. Briefly discuss the barriers you may encounter during implementation and how you will overcome these barriers. (50 marks)

3. Sri Lanka's changing demographic and epidemiological transition is the primary reason why the country needs to examine changes to its health care financing system". Critically comment on the above statement.

(100 marks)

Contd...../2-

4.

- 4.1. What do you mean by Organizational Ethics? (10 marks)
- 4.2. As Medical Superintendent of a District General Hospital describe the key issues you may encounter in relation to ensure Organizational Ethics. (40 marks)
- 4.3. Discuss the strategies you would adopt to ensure Organizational Ethics in your hospital. (50 marks)

5. You are the Director of a District General Hospital Media highlights an apparent COVID-19 infectious disease spread in other countries.

- 5.1. Discuss your immediate response to this news. (20 marks)
- 5.2. Director General of Health Services asked you to get ready to accept such suspected patients in your hospital; Discuss your plan of action to prepare your hospital for the impending challenge. (40 marks)
- 5.3. Ministry of Health is planning to designate your hospital as a center for management of diagnosed COVID-19 patients.
What actions will you take to convert your hospital to a treatment center for such patients. (40 marks)