

SECOND SEMESTER - MASTER OF PUBLIC HEALTH (RS 2)
MASTER OF PUBLIC HEALTH IN EPIDEMIOLOGY
MASTER OF PUBLIC HEALTH IN HEALTH ECONOMICS
DEGREE EXAMINATION – DECEMBER 2020

Time: 3 Hours

Max. Marks: 80

EPIDEMIOLOGY (PART I & PART II)

Q.P. Code:1804

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 15 = 30

1. Assume that you have been commissioned to design a prevention program for HIV/AIDS. Will your prevention program approach be to target high risk population or general population as a whole, justify. Design an appropriate prevention program and explain in detail your approach. (5+10)
2. A new screening test for HIV/AIDS produced following results based on the data, calculate the test's respectively. Interpret your finding. Would you recommend this test as screening test for HIV/AIDS in general population? If yes/no justify.

Screening test	True disease status	
	Positive	Negative
Positive	92	12
Negative	16	365

SHORT ESSAY QUESTIONS:

5 X 10 = 50

3. An epidemiologist hypothesized that coffee drinking is associated with angina pectoris. To test this hypothesis, he designed a case-control study where the cases were drawn from patients attending a cardiac care hospital, the control who had no medical history of angina were drawn from another hospital in the same community that specialized in the treatment and management of gastric disorders. Did the epidemiologist design an appropriate study? If yes/no justify. Discuss the advantages or disadvantages in this study. How can it be modified if required?
4. Discuss dynamics of disease transmission.
5. Discuss active and passive surveillance with appropriate example.
6. Describe the steps in investigation of an epidemic with suitable example.
7. Explain measurement bias and selection bias in detail with examples.

KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH, BELAGAVI.
(Declared as Deemed-to-be-University u/s 3 of the UGC Act, 1956)

Accredited 'A' Grade by NAAC (2nd Cycle)

Placed in 'A' Category by MHRD (GoI)

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BIostatISTICS (PART I & II)

Q.P. Code: 1805

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Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 15 = 30

1. Enumerate and describe various sampling designs.
2. Explain the following with suitable example.
 - a) Simple correlation coefficient
 - b) Multiple correlation coefficient
 - c) Partial correlation coefficient

SHORT ESSAY QUESTIONS:

5 X 10 = 50

3. Describe Poisson distribution with example
4. Discuss the role of tests of significance in comparison of different sets of data. Explain any one parametric test with appropriate example.
5. Explain point and interval estimation with suitable example. Discuss its relevance in public health practice.
6. Describe the difference between a one tailed and two-tailed test. Explain with example when will you use-tailed and two-tailed test in public health practice.
7. Illustrate Mann-Whitney test with example.

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EPIDEMIOLOGY OF INFECTIOUS & NON-COMMUNICABLE DISEASES

Q.P. Code: 1806

Answers should be specific to the Questions asked.
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All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 15 = 30

1. Critically review the RNTCP program and describe the advantages and limitations/ challenges in implementing RNTCP program in India.
2. Explain web of causation model using obesity as an example. Discuss various control and preventive measure for obesity.

SHORT ESSAY QUESTIONS:

5 X 10 = 50

3. City X reported high incidence of dog bite and rabies cases. Discuss the agent, host, incubation period, clinical features of rabies. As a public health expert what measures would you advice to reduce the incidence of rabies in City X? (note : consider animal rights too while suggesting preventive measure)
4. Discuss acute diarrheal diseases in terms of aetiology, clinical features and preventive measures.
5. Discuss the mental health problem in India and design a mental program.
6. World Health Organization has issued an alert for Japanese encephalitis. As a public health officer how will you identify JE and manage the situation from spreading in your area.
7. Classify diabetes. Briefly describe its risk factors and preventive measures.

**FOURTH SEMESTER - MASTER OF PUBLIC HEALTH (RS 2)
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Time: 3 Hours

Max. Marks: 80

MATERNAL & CHILD HEALTH NUTRITION (PART I & II)

Q.P. Code: 1810

Answers should be specific to the Questions asked.

Draw neat, labeled diagrams wherever necessary.

All the questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS (All are compulsory):

2 X 15 = 30

1. What are the causes of neo-natal mortality in India? Explain in detail preventive and social measures required to reduce neo-natal mortality?
2. Describe factors associated with Protein Energy Malnutrition (PEM). Explain in detail preventive measures for PEM

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 10 = 50

3. Components of National Iodine Deficiency Disorders Control Program?
4. Social problems encountered by girl child
5. Mother and child tracking system (MCTS)
6. Bio-chemical indicators of nutritional status
7. Tests of pasteurized Milk

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DEMOGRAPHY AND FAMILY PLANNING

Q.P. Code: 1811

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All the questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS (All are compulsory):

2 X 15 = 30

1. Describe in detail steps for evaluation of family planning services
2. What are the indicators of demographic trends? Briefly write about them.

SHORT ESSAY QUESTIONS (All are compulsory):

5 X 10 = 50

3. Couple protection rate
4. List national socio-demographic goals to be achieved by 2010
5. Social impact of low stationary stage
6. Social and health impact of illegal abortion
7. Write a note on demographic cycle
