

**KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH, BELAGAVI.**

(Declared as Deemed-to-be-University u/s 3 of the UGC Act, 1956)

Accredited A<sup>+</sup> Grade by NAAC (3<sup>rd</sup> Cycle)

Placed in 'A' Category by MHRD (GoI)

**SECOND SEMESTER - MASTER OF PUBLIC HEALTH (RS 2)**

**MASTER OF PUBLIC HEALTH IN EPIDEMIOLOGY**

**MASTER OF PUBLIC HEALTH IN HEALTH ECONOMICS & OUTCOME RESEARCH**

**DEGREE EXAMINATION – AUGUST 2022**

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. Describe steps in evaluation of Covid-19 screening.
2. What are the different steps involved in planning, designing and conducting of epidemiological surveys. Explain briefly.

**SHORT ESSAY QUESTIONS:**

**5 X 10 = 50**

3. Brief note on sampling design.
4. Describe the dynamics of disease transmission.
5. Briefly explain association and causation.
6. How can you apply epidemiology to evaluate health services?
7. Write a brief note on surveillance.

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**DEGREE EXAMINATION – AUGUST 2022**

Time: 3 Hours

Max. Marks: 80

**BIOSTATISTICS (PART I & II)**

**Q.P. Code: 1805**

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. Describe the role of probability distribution in monitoring health program. Explain with suitable example.
2. Suppose we would like to test the hypothesis that mean cholesterol levels of residents of City A and City B are the same. State the appropriate hypothesis set (null and alternative). Discuss the appropriate statistical test to be applied here and justify. (Note: Both populations have the same variance).

**SHORT ESSAY QUESTIONS:**

**5 X 10 = 50**

3. Compare and contrast correlation and regression. Discuss their uses in public health practice with suitable example.
4. Discuss the advantages and disadvantages of parametric and non-parametric tests give examples.
5. Define confidence interval. Does the sample size and level of confidence (Eg: 90%, 95% or 99%) affect the width of confidence interval? Is yes/no explain with example. (2+3+5)
6. Write a note on application of statistics to public health settings.
7. Discuss the uses of z-test and t-test in public health practice. Explain with suitable example.

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**DEGREE EXAMINATION – AUGUST 2022**

Time: 3 Hours

Max. Marks: 80

**EPIDEMIOLOGY OF INFECTIOUS & NON-COMMUNICABLE DISEASES**

**Q.P. Code: 1806**

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. What are the common causes of blindness in India? Discuss national blindness control programme in detail. (5+10)
2. Enumerate zoonotic diseases. Discuss the epidemiology of Brucellosis infection. (3+12)

**SHORT ESSAY QUESTIONS:**

**5 X 10 = 50**

3. Write in detail about vaccines available in India against Covid-19 infection.
4. Describe in short about community management of obesity. Add a note on assessment of obesity.
5. HIV and TB have made lethal friendship with each other explain.
6. Mental health problems are preventable in India. Justify? Add a note on strategies of National Mental Health Program. (5+5)
7. Discuss the epidemiology of Japanese encephalitis. Add a note on amplifier host.

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**FOURTH SEMESTER - MASTER OF PUBLIC HEALTH (RS 2)**

**MASTER OF PUBLIC HEALTH IN EPIDEMIOLOGY**

**MASTER OF PUBLIC HEALTH IN HEALTH ECONOMICS & OUTCOME RESEARCH**

**DEGREE EXAMINATION – AUGUST 2022**

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:**

**2 X 15 = 30**

1. Describe the objectives and services provided to be beneficiaries under the Integrated Child Development Scheme (ICDS).
2. Describe the proximate principles of food in detail.

**SHORT ESSAY QUESTIONS:**

**5 X 10 = 50**

3. Write a note on determinants of maternal health.
4. Briefly describe Nutritional Rehabilitation Centre (NRC).
5. Write a note on Nutritional surveillance.
6. Briefly describe steps in pasteurization of milk.
7. Write a note on antenatal care.

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**MASTER OF PUBLIC HEALTH IN EPIDEMIOLOGY**  
**MASTER OF PUBLIC HEALTH IN HEALTH ECONOMICS & OUTCOME RESEARCH**  
**DEGREE EXAMINATION – AUGUST 2022**

Time: 3 Hours

Max. Marks: 80

**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:**

**2 X 15 = 30**

1. Discuss the methods of evaluation of family planning services. Add a note on social marketing. (9+6)
2. Define demography. Describe demographic trends in India. Write in brief about demographic transition.

**SHORT ESSAY QUESTIONS:**

**5 X 10 = 50**

3. Define fertility. Explain the reasons for high fertility in India.
4. Discuss the challenges faced in effective implementation of family welfare services in the country.
5. Define life expectancy. Describe how the life table is constructed?
6. Compare the various demographic trends of India with rest of the world.
7. What is demographic transition? Discuss various factors influencing demographic transition.

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