

[LD 1013]

OCTOBER 2013

Sub. Code: 2864

M.Sc NON-MEDICAL DEGREE EXAMINATION

FIRST YEAR

BRANCH II - BIOSTATISTICS

PAPER IV – DEMOGRAPHY AND HEALTH STATISTICS DATA  
MANAGEMENT

*Q.P. Code : 282864*

**Time : 3 hours**

**Maximum : 100 marks**

**I. Elaborate on :**

**(2X20=40)**

1. Discuss in detail the inter-relationship between changes in fertility, mortality, migration and socio economic development and its impact on health of the people in India.
2. Discuss the utility of receiver operator characteristics curve in the evaluation of diagnostic test. Outline the considerations involved in the choice of cut-off point.

**II. Write notes on:**

**(10X6=60)**

1. Adjusted ODD 's ratio
2. Age and sex composition
3. Demographic transition
4. Uses of MS excel
5. Life tables
6. Chandrasekar index
7. Population pyramid
8. Anova test
9. Additional law and multiplication of probability
10. Census

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[LF 1014]

OCTOBER 2014

Sub. Code: 2864

**M.Sc., NON-MEDICAL DEGREE EXAMINATION  
FIRST YEAR  
(New Regulation)  
BRANCH II - BIOSTATISTICS  
PAPER IV – DEMOGRAPHY AND HEALTH DATA MANAGEMENT**

*Q.P. Code : 282864*

**Time : Three hours**

**Maximum : 100 marks**

**I. Elaborate on :**

**(2 x 20 = 40)**

1. Composition and Distribution of growth of population.
2. Health Data Management

**II. Write notes on:**

**(10 x 6 = 60)**

1. Determination of mortality
2. Abridged Life table
3. Deming Index
4. Data manipulation and creating a data file in Excel
5. Statistically meaningful Graphs and charts in Excel
6. Proportions of each cell is known in crosstabs instead of raw data. What test could be used to test the proportions and how it could be performed in SPSS?
7. Non-parametric methods in SPSS
8. Students test and F test in SAS
9. Data Functions in SAS
10. Cross tabulation, data input and output in SAS and SPSS

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[LH 0415]

OCTOBER 2015

Sub. Code: 2864

**M.Sc., NON – MEDICAL DEGREE COURSES  
BRANCH II - BIOSTATISTICS  
FIRST YEAR  
PAPER IV – DEMOGRAPHY AND HEALTH DATA MANAGEMENT**

*Q.P. Code: 282864*

**Time: Three hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain Briefly on
  - (i) Reproduction rates
  - (ii) Standardised death rates
  - (iii) Population growth
  - (iv) Construction of life table
  - (v) Survival ratio method of migration
  
2. Describe Parametric and Non-parametric methods and how will you run these methods in SAS

**II. Write notes on:**

**(10 x 6 = 60)**

1. Migration selectivity and differential.
2. Determination of mortality.
3. Aging of Population.
4. Effect of migration on age structure.
5. Graphs and Charts for Health Research using Excel.
6. Tests for association and its Procedure in SPSS.
7. Data transformations in SPSS.
8. Merging and appending data.
9. Macro writing and Running Query Language.
10. Data manipulation and Data Functions in SAS.

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[LJ 1016]

OCTOBER 2016

Sub. Code: 2864

**M.Sc. BIOSTATISTICS EXAMS  
FIRST YEAR  
PAPER IV – DEMOGRAPHY AND HEALTH DATA MANAGEMENT**

*Q.P. Code: 282864*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:** **(2 x 20 = 40)**

1. Define demography and the composition and distribution of population growth.
2. Describe the SAS environment and explain the different steps involved in executing a SAS program.

**II. Write notes on:** **(10 x 6 = 60)**

1. Age and sex ratio.
2. Construction of life table.
3. Aging of population.
4. Data manipulation and creating charts in MS excel.
5. Merging and appending data in SPSS.
6. Describe the steps in computing new variable in SPSS.
7. Describe the test for 2x2 table in SPSS.
8. Student's 't' test and 'f' test in SAS .
9. Describe with an example to obtain summary statistics using SAS.
10. Mortality measures.

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[LL 1017]

OCTOBER 2017

Sub. Code: 2864

**M.Sc. BIOSTATISTICS EXAMS  
FIRST YEAR  
PAPER IV – DEMOGRAPHY AND HEALTH DATA MANAGEMENT**

*Q.P. Code : 282864*

**Time : Three hours**

**Maximum : 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain:
  - a) Uses of life table.
  - b) Census method.
  - c) Data manipulation in MS excel.
  - d) Data transformation in SPSS.
2. Explain non-parametric methods using examples in SAS.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Crude and specific rates.
2. Age and sex ratio.
3. Distribution of population growth.
4. Steps to plot graphs and charts using excel with an example.
5. Merging and appending data in SPSS.
6. Cross tabulation in SPSS.
7. Two-way ANOVA analysis with an example using SPSS.
8. Procedure to calculate t-test using SAS.
9. Mann Whitney U-test calculation using SAS with an example.
10. Running Query language using SAS.

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[LM 0518]

MAY 2018

Sub. Code: 2864

**M.Sc. BIOSTATISTICS EXAMS  
FIRST YEAR  
PAPER IV – DEMOGRAPHY AND HEALTH DATA MANAGEMENT**

*Q.P. Code : 282864*

**Time : Three hours**

**Maximum : 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain:
  - a) Construction of life tables.
  - b) Registration method.
  - c) Creating a data file in MS excel.
  - d) Data view and variable view in SPSS.
2. Explain macro writing, running query language in SAS.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Direct and indirect method of standardization.
2. Population pyramid.
3. Effect of fertility.
4. Any one simple statistical analysis using excel with an example.
5. Descriptive statistics in SPSS.
6. Cross tabulation in SPSS.
7. One-way ANOVA analysis with an example in SPSS.
8. Paired t-test in SAS.
9. Mann Whitney U-test in SAS with an example.
10. Data input and output in SAS.

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[LN 1018]

OCTOBER 2018

Sub. Code: 2864

**M.Sc. BIOSTATISTICS EXAMS  
FIRST YEAR  
PAPER IV – DEMOGRAPHY AND HEALTH DATA MANAGEMENT**

*Q.P. Code : 282864*

**Time : Three hours**

**Maximum : 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define demography and composition and distribution of population growth with suitable example.
2. Write a detailed note on use of SAS in Health data management by explaining the steps involved in executing SAS program and running query language and summarizing information with example.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Deming Index.
2. Population Pyramid.
3. Graphs and Charts using MS Excel with example.
4. Types Data transformations using SPSS with example.
5. Abridged life table.
6. Calculation of t test using SAS.
7. Cross tabulation using SPSS with example.
8. Data Manipulation in MS Excel with example.
9. Effects of Fertility.
10. Crude and Specific rates.

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[LP 1019]

OCTOBER 2019

Sub. Code: 2864

**M.Sc. BIOSTATISTICS EXAMS  
FIRST YEAR  
PAPER IV – DEMOGRAPHY AND HEALTH DATA MANAGEMENT**

*Q.P. Code : 282864*

**Time : Three hours**

**Maximum : 100 marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain type of input statements in SAS with example.
2. Discuss in detail about direct and indirect methods of standardization.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Explain how to import the excel data into SPSS and SAS environment?
2. Data transformations in SPSS.
3. How to import raw data from Excel to SPSS?
4. One way ANOVA in SPSS.
5. Importance of merging in SAS.
6. Describe any SAS Date functions.
7. Write a SAS program to create a dataset of five subjects with the following variables Age, Gender, Haemoglobin level.
8. Explain rate, ratio and proportion with examples.
9. Chandrasekhar Deming Index.
10. Use of Life tables.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 0321]

**MARCH 2021**

**Sub. Code: 2864**

**(OCTOBER 2020 EXAM SESSION)**

**M.Sc. BIOSTATISTICS**

**FIRST YEAR (From 2011-2012 onwards)**

**PAPER IV – DEMOGRAPHY AND HEALTH DATA MANAGEMENT**

***Q.P. Code : 282864***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Describe the SAS environment and explain the different steps involved in executing a SAS program
2. Define demography and the composition and distribution of population growth.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Construction of life table.
2. Aging of population.
3. Describe the test for 2x2 table in SPSS.
4. Sorting, Merging and appending data
5. Age and sex ratio.
6. Merging and appending data in SPSS.
7. Describe the steps in computing new variable in SPSS.
8. Describe with an example to obtain summary statistics using SAS.
9. Brief about Health Data Management
10. Deming Index

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 0222]

**FEBRUARY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 2864**

**M.Sc. BIOSTATISTICS  
FIRST YEAR (From 2011-2012 onwards)  
PAPER IV – DEMOGRAPHY AND HEALTH DATA MANAGEMENT  
*Q.P. Code : 282864***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Discuss in detail about direct and indirect methods of standardization
2. Explain Briefly on
  - Reproduction rates
  - Standardized death rates
  - Population growth
  - Construction of life table
  - Survival ratio method of migration

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Explain how to import the excel data into SPSS and SAS environment?
2. Data transformations in SPSS.
3. How to import raw data from Excel to SPSS?
4. One way ANOVA in SPSS.
5. Graphs and Charts using MS Excel with example.
6. Calculation of t test using SAS.
7. Cross tabulation using SPSS with example.
8. Explain rate, ratio and proportion with examples.
9. Use of Life tables.
10. Crude and Specific rates.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 1022]

**OCTOBER 2022**

**Sub. Code: 2864**

**M.Sc. BIOSTATISTICS**  
**FIRST YEAR (From 2011-2012 onwards)**  
**PAPER IV – DEMOGRAPHY AND HEALTH DATA MANAGEMENT**  
*Q.P. Code : 282864*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:** **(2 x 20 = 40)**

1. Describe the complete structure of a life table, and explain how different columns of a life table can be computed?
2. Describe parametric and non-parametric statistical methods and their procedures in SAS to run them.

**II. Write Short Notes on:** **(10x6 = 60)**

1. Define different indices of mortality.
2. Define and differentiate between rates, ratios and proportions.
3. Explain dejure method along with its merits and demerits.
4. Explain dependency ratio.
5. What is population density?
6. Explain different data formats available in Excel with example.
7. How to import data from Excel to SPSS and SAS?
8. Differentiate between variable labels and value labels in SPSS.
9. State the procedure for assessing normality in SAS.
10. Explain date functions in SAS.

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