

[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

[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

[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.

[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.

[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.

[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.

[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.

[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.

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

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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[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 parameteric and non-parameteric 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 de jure 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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[AHS 1023]

OCTOBER 2023

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 Parametric and Non-parametric methods and how will you run these methods in SPSS?
2. Define demography and the composition and distribution of population growth.

II. Write Short Notes on:

(10x6 = 60)

1. Direct and indirect method of standardization.
2. One-way ANOVA analysis with an example in SPSS.
3. Aging of Population.
4. Migration selectivity and differential.
5. Determination of mortality.
6. Census.
7. Age and sex ratio.
8. Construction of life table.
9. Merging and appending data in SPSS.
10. Mortality measures.

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[AHS 1024]

OCTOBER 2024

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. Explain population pyramid, its construction and its importance with examples.
2. What are the different levels of measurement specified in SPSS and briefly explain them with examples.

II. Write Short Notes on:

(10x6 = 60)

1. Define vital statistics, vital events and describe the sources of data collection on vital events.
2. What is meant by fertility? And how it is measured? Describe the various fertility rates commonly used.
3. Distinguish between defacto and dejure population count.
4. Discuss the concept of demographic transition.
5. Describe the steps for constructing a bar chart in Excel.
6. How to import data from Excel to SPSS and SAS?
7. What are essential steps to append and merge datasets in SPSS?
8. Explain date functions in SAS.
9. Data of marks of 20 students in four subjects are given. One needs to know in how many subjects each student has got marks greater than 35. Give the procedure to obtain it using SAS.
10. State the procedure for assessing normality in SAS.

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[AHS 1025]

OCTOBER 2025

Sub. Code: 2864

**M.Sc. BIOSTATISTICS
FIRST YEAR (From 2011-2012)
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. Describe parametric and non-parametric statistical methods and their procedures in SAS to run them.

II. Write Short Notes on:

(10x6 = 60)

1. Importing data from Microsoft Excel to SPSS software.
2. SAS date function.
3. Chandrasekhar Deming Index.
4. Uses of Life Tables.
5. Population pyramid.
6. Give an example of cross-tabulation using SPSS.
7. Crude and specific rates.
8. Define different indices of mortality.
9. Age and sex ratio.
10. Procedure to calculate t-test using SAS.
