

INTERNATIONAL INSTITUTE FOR POPULATION SCIENCES

Centre for Distance and Online Education

Deonar, Mumbai – 400 088.

M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Sociology, Psychology and Anthropology

Date: July 2, 2024

Code:- MSP-01 F

Time: 10.00 a.m. to 12.30 p.m.

*Note: Attempt **ANY FOUR** questions.*

All Questions carry equal grade.

- Q.1 Discuss the different mechanism of Social Change
- Q.2 Explain the basic principles of Caste System?
- Q.3 What are the mechanism of Social Change? Discuss
- Q.4 What is marriage and discuss forms of marriage?
- Q.5 Discuss the characteristics of tribal economy?
- Q.6 Discuss role of psychology in population studies?
- Q.7 Discuss in detail the theory of motivation.

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Economics and Geography

Code:- MSP-02F

Date: July 2, 2024

Time: 02.30 p.m. to 05.00 p.m.

Note: Attempt ANY FOUR questions.

All Questions carry equal grade.

1. What is the Scope and Method of Economics?
2. What is Supply and Demand Axis? Explain it with Health Care Market example.
3. What you mean by Opportunity Cost? Explain it with examples.
4. Define Geography as an inter-disciplinary subject. How far is it pertinent in the present context..
5. Elaborate the concepts of Determinism and Possibilism with suitable arguments and examples.
6. Write short notes (ANY TWO) on the following:
 - (a) Post-modernism in Geography
 - (b) Spatial interaction and flow
 - (c) Regional diversity
 - (d) Map and globe
 - (e) GIS
7. What is space in Geography? Describe different types of spaces.

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Basic Statistical Methods for Population Studies

Code:- MSP-03C

Date: July 3, 2024

Time: 10.00 a.m. to 01.00 p.m.

*Note: Attempt **ANY FIVE** questions
All Questions carry equal grade*

- Q.1 What is t-statistics and Z-statistics? Discuss properties of t-statistics.
- Q.2 What is critical value and critical region? Explain the use of level of significance in hypothesis testing.
- Q.3 Explain Type I and II errors with explanation on the null and alternate hypotheses.
- Q.4 a) Discuss the instances when median is preferred over mean with illustration.
- b) A district factsheet shows 55% of rural women visited for Antenatal care for at least 4 times (ANC4) during last pregnancy as compared to 75% of women from urban area. Assuming 60% of population of the district reside in rural area, calculate combined average value of the indicator ANC4 in district.
- Q.5 Define standard deviation. Calculate, and compare standard deviation of the given two variables.

Variable1	7	7	9	9	8	8
Variable2	5	6	7	8	9	10

- Q.6 Write short note on **any two** from the following topics-
- a) Scatter plot
- b) Interpolation and extrapolation
- c) Quantiles

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Q.7 A biologist assumes that there is a linear relationship between the amount of fertilizer supplied to tomato plants and the subsequent yield of tomatoes obtained.

Eight tomato plants, of the same variety, were selected at random and treated, weekly, with a solution in which x grams of fertilizer was dissolved in a fixed quantity of water. The yield, y kilogram, of tomato was recorded.

Plants	A	B	C	D	E	F	G	H
X	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
y	3.9	4.4	5.8	6.6	7.0	7.1	7.3	7.7

- Calculate the equation of the least squares regression line y on x .
- Estimate the yield of a plant treated, weekly, with 3.2 grams of fertilizer.

Q.8 Write a short note on the following

- Partial correlation
- Application of correlation and regression in real world scenario
- The line of best fit

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

**Sub:- Introduction to Demography and
History of Population**

Date: July 3, 2024

Code:- MSP-04 C

Time: 02.30 p.m. to 05.30 p.m.

*Note: Attempt **ANY FIVE** questions.*

All Questions carry equal grade.

- Q.1 Explain the subject matter of Demography and its interlinkages with other social sciences.
- Q.2 Discuss the relevance of demographic transition theory in contemporary society.
- Q.3 Describe changes in age-sex structure of India and states.
- Q.4 Discuss the implications of age-structure transition on demographic dividend.
- Q.5 Describe the trends and patterns of sex ratio of India and factors affecting sex ratio.
- Q.6 What is dual record system? Explain its components and organization structure in India.
- Q.7 Explain the strength and weaknesses of any two largescale survey in India.
- Q.8 Elucidate various measures of age structure of the population.

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Fertility and Nuptiality

Code:- MSP-05C

Date: July 4, 2024

Time: 10.00 a.m. to 01.00 p.m.

Note: Attempt ANY FIVE questions.

All Questions carry equal grade.

- Q.1 What is Nuptiality Studies? Explain
- Q.2 What is Child marriage? How it is affecting women and children's health
- Q.3 What is Homogamy? Explaining it is using an example
- Q.4 What is Feminisation of Widowed in India? Why it happens?
- Q.5 Describe basic concepts and terms used in fertility study.
- Q.6 Discuss fertility transition in developing countries with suitable illustration. What are the future prospects?
- Q.7 Describe socio-economic theories of fertility with criticisms.
- Q.8 What do you mean by below replacement level fertility. What are the social, economic, demographic and health implications of below replacement level fertility?

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

**Sub:- Evaluation, Adjustment of Demographic Data
and Population Projection**

Date: July 4, 2024

Code:- MSP-06 C

Time: 02.30 p.m. to 05.30 p.m.

Note: Attempt ANY FIVE questions.

All Questions carry equal grade.

- Q.1 Discuss various direct and indirect methods of evaluation of age-sex data.
- Q.2 Describe the process of adjusting age data using Whipple's index. Explain its major assumptions.
- Q.3 How do you evaluate the age data for the older population? Explain in brief the method of adjusting age data in the older population.
- Q.4 Write short notes on **ANY-TWO** of the following:
- a) Chandrashekhar and Deming Method
 - b) Non-sampling error
 - c) United Nations Age-Sex Accuracy Index
- Q.5 Describe the necessity of making the national level population projections.
- Q.6 Discuss the estimation procedure of fitting modified exponential curve for population projection.
- Q.7 Write the major steps involved in the projection of population by the Expert Committee (Technical Group).
- Q.8 Briefly discuss the following methods of sub-national population projection:
- (1) Ratio Method
 - (2) Water Method

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Introduction to Demographic and Statistical Software

Date: July 5, 2024

Code:- MSP-07 C

Time: 10.00 a.m. to 01.00 p.m.

Note: Attempt ANY FIVE questions.

All Questions carry equal grade.

- Q.1 What is a population pyramid, and what information does it provide about a population? Construct a population pyramid for the given dataset in ANNEXURE-1.
- Q.2 Explain in detail various applications related to Model Life Table Construction using MORTPAK.
- Q.3 Briefly explain in the word document or in a supplementary sheet the Spectrum Modules on:
i. FamPlan
ii. Resource Needs Model
- Q.4 What is the type of dependent variable is used for a regression? Give the procedure to run a regression analysis in SPSS with a dependent variable and four categories of education that is “no-education”, “primary”, “secondary” and “Higher”.
- Q.5 Given “age” variable in seven categories 1 “15-19”, 2 “20-24”, 3 “25-29”, 4 “30-34”, 5 “35-39”, 6 “40-44”, 7 “45-49” in SPSS. Give a procedure in SPSS to recode into a new variable “ageRe” in three categories 1 “15-24”, 2 “25-34” and 3 “35 and above”.
- Q.6 Given is description in the Appendix A. Prepare a sample slides for power point presentation by giving title, subtitles for the presentation.
- Q.7 Give a STATA command to recode a variable “CEB” 0 to 10 children into a new variable “CEB_n” having only three categories 0 to 2, 3 to 6, 6 and above.
- Q.8 What are the options provided in SPSS for split file and select cases? Explain each option provided.

ANNEXURE-1. Population by Age and Sex: 2019
(Numbers in thousands.)

Age (Years)	Both sexes		Male		Female	
	Number	Percent	Number	Percent	Number	Percent
All ages	3,24,356	100.0	1,59,028	100.0	1,65,328	100.0
< 5	19,736	6.1	10,094	6.3	9,642	5.8
5 - 9	20,212	6.2	10,328	6.5	9,884	6.0
10 - 14	20,827	6.4	10,650	6.7	10,177	6.2
15 - 19	20,849	6.4	10,545	6.6	10,304	6.2
20 - 24	21,254	6.6	10,716	6.7	10,538	6.4
25 - 29	23,277	7.2	11,792	7.4	11,485	6.9
30 - 34	21,932	6.8	10,935	6.9	10,997	6.7
35 - 39	21,443	6.6	10,629	6.7	10,814	6.5
40 - 44	19,584	6.0	9,628	6.1	9,956	6.0
45 - 49	20,345	6.3	9,993	6.3	10,351	6.3
50 - 54	20,355	6.3	9,930	6.2	10,425	6.3
55 - 59	21,163	6.5	10,046	6.3	11,117	6.7
60 - 64	20,592	6.3	9,819	6.2	10,773	6.5
65 - 69	17,356	5.4	8,198	5.2	9,158	5.5
70 - 74	14,131	4.4	6,691	4.2	7,440	4.5
75 - 79	9,357	2.9	4,233	2.7	5,124	3.1
80 - 84	6,050	1.9	2,519	1.6	3,532	2.1
85 +	5,893	1.8	2,282	1.4	3,611	2.2

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Migration and Urbanization

Code:- MSP-08 C

Date: July 5, 2024

Time: 02.30 p.m. to 05.30 p.m.

Note: Attempt ANY FIVE questions.

All Questions carry equal grade.

- Q.1 Discuss the various sources of data on migration with its merits and demerits.
- Q.2 Critically discuss the method of estimating migration using place of birth and place of last destination data.
- Q.3 Critically evaluate Todaro's method of rural-urban migration.
- Q.4 Define migration and mobility. Discuss various sources of data of international migration.
- Q.5 Distribution of population distribution in the world and discuss the role of physical and cultural factors responsible for the uneven distribution of population.
- Q.6 Table 1. Provide data on the total, urban and rural population (in million) for Punjab from 1991 to 2011. Using this data, calculate the level and tempo of urbanization in Punjab and write a short note on your result:

Population in Million			
1991	20	6	14
2001	24	8	16
2011	27	10	27

- Q.7 How is urban defined by the census of India? Discuss the issues and challenges of urbanization in India.
- Q.8 Write short notes on any **THREE** of the following:
- Environmental impact of urbanization in India.
 - Primary index and Rank size Rule.
 - Kingsley Davis Model of cycle of urbanization.
 - Suburbans and Rural-urban fringe

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Historical Demography

Code:- MSP-09C

Date: July 8, 2024

Time: 10.00 a.m. to 12.30 p.m.

Note: Attempt ANY FOUR questions.

All Questions carry equal grade.

- Q.1 Discuss the importance of historical demography in contemporary demography.
- Q.2 Discuss in detail about census taking in British India.
- Q.3 Discuss challenges administration faced while conducting the first census in 1881 in British India.
- Q.4 Discuss the history of India's population growth from 1901 to 2001.
- Q.5 Discuss the historical demography in Europe.
- Q.6 Discuss trends of life expectancy from 1881 to 1941.
- Q.7 Write any two short notes
- a) Baby boom
 - b) W.C. Plowden
 - c) Census administration process

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Gender and Reproductive Health

Code:- MSP-10 C

Date: July 8, 2024

Time: 02.30 p.m. to 05.30 p.m.

*Note: Attempt **ANY FIVE** questions.*

All Questions carry equal grade.

- Q.1 Elaborate masculinity and femininity. Why do we need healthy masculinity and femininity for societal development?
- Q.2 Discuss age at marriage in India. Do you think that increase in age at marriage will reduce dowry in India? Argue with facts and logic.
- Q.3 When do we call a male- female difference as ‘gender difference’? Elaborate with some indicators you studied in this course.
- Q.4 What is empowerment and autonomy? Why do we need empowerment? How to empower women in India?
- Q.5 Are there any specific reproductive health needs of the men? Is men involvement necessary in reproductive health issues? If yes, describe strategies to enroll men?
- Q.6 Define abortion. Are the changes in abortion law in India over the period of time in harmony with the reproductive needs of the people?
- Q.7 What is birth preparedness? How can it contribute in preventing maternal and neonatal mortality in India?
- Q.8 What is contraception? How to address unmet need of family planning among youth in India.

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Population and Development

Code:- MSP-11 C

Date: July 9, 2024

Time: 10.00 a.m. to 01.00 p.m.

Note: Attempt ANY FIVE questions.

All Questions carry equal grade.

- Q.1 Discuss in detail the concept of the Multidimensional Poverty Index.
- Q.2 Elaborate on the concept and measures of Development.
- Q.3 Discuss the development strategies through the India's Five Years Plans
- Q.4 Write about the views of Malthus, Coale & Hoover, Ester Boserup, Paul Ehrlich and Julian Simon on population.
- Q.5 Write short notes on **any two** of the following:
- (a) Economic and non-economic determinants of development
 - (b) Rostow's Stages of Growth Model (OR) Harrod-Domar's Growth Model.
 - (c) Demographic Dividend
- Q.6 Define Labour Force. Critically discuss Female Labour Force participation in India.
- Q.7 Elaborate effects of climate change on health, with examples.
- Q.8 What is ecosystem and ecological footprint? Why do we need ecological stability?

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Research Methodology

Code:- MSP-12C

Date: July 9, 2024

Time: 02.30 p.m. to 05.30 p.m.

Note: Attempt ANY FIVE questions.

All Questions carry equal grade.

- Q.1 Discuss in detail Focus Group Discussion as a tool to gather qualitative data?
- Q.2 Define a code and discuss its importance in qualitative data analysis?
- Q.3 Discuss with suitable example the components of a research proposal?
- Q.4 What are the basic differences between validity and reliability of measurement? Explain?
- Q.5 Write basic differences between structured and open-ended questionnaire. Discuss?
- Q.6 Design a sample survey for the following research objective “To know the reasons behind the low use of contraceptives in Uttar Pradesh”?
- Q.7 Briefly explain the different types of research design?
- Q.8 Write short notes on ANY THREE:
- (a) Consent form
 - (b) Techniques of conducting free listing exercise
 - (c) Sampling frame
 - (d) Probability and non-probability sampling

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Concepts and Measures of Global Health
Code:- MSP-13 C

Date: July 10, 2024
Time: 10.00 a.m. to 12.30 p.m.

*Note: Attempt **ANY FOUR** questions.
All Questions carry equal grade.*

- Q.1 What do you understand by global health? Briefly describe the main sources of data for global health.
- Q.2 Describe any framework that can be used for assessment of performance of health system?
- Q.3 What is meant by Burden of disease? Describe briefly the major determinants of global burden of disease with suitable examples.
- Q.4 Briefly explain application of Multi-Criteria Decision Analysis (MCDA) for Global Health Priority Setting?
- Q.5 What do you understand by globalization? Briefly describe the four key aspects of migration and health with suitable examples.
- Q.6 Write short notes on any **Two** of the following:
- (1) Human rights approach to health (HRAH)
 - (2) Role of WHO in Global Health
 - (3) Push and pull factors affecting migration of health care workers (d) Climate change and global health
- Q.7 Define environmental health. Briefly describe the relationship of environmental factors and health. Give suitable examples.

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

**Sub:- Population Policies, Programme and Evaluation
of HFW Programme**

Date: July 10, 2024

Code:- MSP-14 C

Time: 02.30 p.m. to 05.30 p.m.

***Note: Attempt ANY FIVE questions.
All Questions carry equal grade.***

- Q.1 Discuss the evolution and various approaches of India's family planning program since 1950s.
- Q.2 What is quality of care? Elaborate the quality of care in family planning programs using the Judith Bruce Frame work.
- Q.3 Discuss the concept evaluation and functions of Managers.
- Q.4 Define the Management Information System (MIS) and discuss the major challenges involved in MIS.
- Q.5 How monitoring is different from Operational Research, elaborate with appropriate examples.
- Q.6 Elaborate Enke's Approach and highlight its criticism.
- Q.7 What is the role of service statistics in the study of health program, highlight with the concept of use effectiveness and study of acceptor data.
- Q.8 Elaborate the importance of ICPD held at Cairo in 1994 and its impact on family planning programs.

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

**Sub:- Advanced Statistical Packages and Applications
in Large-Scale Data**

Date: July 11, 2024

Code:- MSP-15C

Time: 10.00 a.m. to 12.30 p.m.

***Note: Attempt ANY FOUR questions.
All Questions carry equal grade.***

- Q.1 Write Short Notes on any three:
- a) Types of data validity
 - b) Veracity of big data
 - c) Consistency of survey data
 - d) Missing data at random
 - e) Pair wise deletion of missing data.
- Q.2 Why to maintain privacy and confidentially during data collection?
- Q.3 What is the use of field check tables to monitor large scale survey?
- Q.4 How does revisit of subsample helps to maintain data quality?
- Q.5 Describe the effect of non-response in sample survey on survey estimates.
- Q.6 How does at Quality Assurance sampling can be helpful to monitor any health program.
- Q.7 Explain the role of supervisor in sample survey.

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Morbidity, Mortality and Public Health

Date: July 11, 2024

Code:- MSP-16 C

Time: 02.30 p.m. to 05.30 p.m.

Note: Attempt ANY FIVE questions.
All Questions carry equal grade

Q.1 Define any **three :**

- a) Maternal mortality rate.
- b) Life expectancy at age 15 years.
- c) Under five child mortality rate.
- d) Secondary attack rate of Disease
- e) Prevalence rate of Disease.
- f) Quality adjusted life years.

Q.2 Describe the need and importance of morbidity statistics in India.

Q.3 Explain the stages of epidemiological transition.

Q.4 Describe the determinants of health with the help of “The 21st Century Field Model”.

Q.5 With suitable example define period (conventional) and Cohort Method of Infant Mortality Rate (IMR).

Q.6 Describe the causes of mortality decline in developing countries.

Q.7 Describe the different types of life table.

Q.8 Explain the seven columns of life table.

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Population Ageing and Health Transition
Code:- MSP-17C

Date: July 12, 2024
Time: 10.00 p.m. to 01.00 p.m.

*Note: Attempt **ANY FIVE** questions*
All Questions carry equal grade

- Q.1 Discuss different measures of population ageing and its usability.
- Q.2 What is healthy ageing? Discuss the WHO framework for healthy Ageing.
- Q.3 Discuss the health care services of older persons in India. Also the Reasons for not accessing health-care services in India
- Q.4 Discuss India's ageing scenario and policies for older persons.
- Q.5. What is elder abuse? Why does it happen? What can be done to prevent elder abuse and neglect in India?
- Q.6 Discuss the scope, relevance and coverage of longitudinal ageing study in India (LASI).
- Q.7 Examine the India's epidemiological transition in the light of the different stages of epidemiological transition theory
- Q.8 What are the merits and demerits of healthy ageing framework as compared to the other available framework?

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Biostatistics and Epidemiology (BIO&EP)

Date: July 12, 2024

Code:- MSP-18E

Time: 02.30 p.m. to 05.00 p.m.

Note: Attempt ANY FOUR questions.

All Questions carry equal grade

- 1)
 - (a) Explain methods of comparison for equal variance and unequal variance.
 - (b) Explain the Bonferroni method and the Tukey procedure for the comparison of means between two distributions
- 2)
 - (a) What are non-parametric test? Explain Signed for paired observations and the Wilcoxon Signed-Rank test.
 - (b) Explain the Mann-Whitney U Test for comparison between three or more groups.
- 3)
 - (a) Explain the ROC curve with a diagram. Explain the specificity and sensitivity applied in an ROC curve. Discuss the validity of a test based on a diagnostic test
 - (b) What are noncommunicable diseases? What are the differences between communicable and noncommunicable diseases?
- 4)
 - (a) Define endemic, Epidemic, and Pandemic. Discuss the epidemiology of communicable diseases in terms of severity and infectivity of infection.
 - (b) What are the measures of mortality? Discuss case fatality rate and annual mortality rate.
 - (c) What is the rationale for survival analysis? Explain.
- 5) With the help of a suitable diagram, explain the steps involved in the conduct of a cohort study.
- 6) Discuss basic steps in conducting a case control study.
- 7) Describe Randomized Controlled Trials with special focus on the concept of single and double blinding.

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M.A. in Population Studies (Distance Learning) Course

Examination – Date: July 2-15, 2024

Sub:- Urbanization, Space and Planning (USP)

Code:- MSP-18E

Date: July 12, 2024

Time: 02.30 p.m. to 05.00 p.m.

Note: Attempt ANY FOUR questions.

All Questions carry equal grade.

- Q.1 What are the factors affecting the location of settlement? Discuss the pattern & types of settlement with suitable examples.
- Q.2 Critically evaluate the central place theory of Christaller.
- Q.3 Discuss the functional classification of Indian towns.
- Q.4 Critically evaluate the industrial location theory given by Weber.
- Q.5 Define city planning. What are the various elements of a city plan.
- Q.6 Discuss the salient features of North-Eastern regional development planning.
- Q.7 Write short notes on any **three** of the following:
- (a) CBD
 - (b) Sectoral Model of urban morphology
 - (c) Sub-urban & rural-urban fringe.
 - (d) Urban agglomeration.
 - (e) Garden city
