

Mid-West University
Examinations Management Office
Surkhet, Nepal

End Semester Examination-2081

Level: M.Ed. / I Semester

Sub: Population Analysis (POP 515)

Roll No:

Group 'A'

10 × 1 = 10

Tick (✓) the best answers.

- Which one of the followings is known as scientific sources of demographic data?
a. Statistical reports
b. Census
c. Sample survey
d. VRS
- Coverage error is concerned the
a. Combination of over and under enumeration
b. Difference of over and under enumeration
c. Method of detecting errors
d. None of them
- Which one of the following functions is linked with the probability of surviving from the exact age x to $x + n$?
a. n^p_x
b. n^q_x
c. n^d_x
d. n^m_x
-is a accurate formula of computing age specific fertility rate.
a. $\frac{B_a}{P_a} \times K$
b. $\frac{B_0}{P_0} \times K$
c. $\frac{B}{P} \times K$
d. None of them
- The index which is used to calculate errors reporting on age based on the age ranges 23 to 62 years is known as:
a. Index of Age Preference
b. UN Age-Sex Accuracy Index
c. Whipple's Index
d. Myer's Blended Index
- The exponential growth function can be defined as:
a. $P_t = P_0 e^{rt}$
b. $P_t = P_0(1 + rt)$
c. $P_t = P_t e^{rt}$
d. None of them
- Which one of the following equations is associated with the stable population model?
a. $C_x = be^{rx}$
b. $C_x = be^r$
c. $C_x = be^{+rx}$
d. $C_x = be^{-rx}$
- Which one of the followings is the current infant mortality rate in Nepal?
a. 27
b. 28
c. 34
d. 39
- The method of census taking which is used to enumerate the entire population based on the usual place of residence is called:
a. De-facto method
b. De-jure-method
c. Modified de-jure method
d. None of them
- The person who moves from one to another some region for short/long period of time is known as...
a. Migration
b. Migration interval
c. Migrant
d. Migration stream

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FM: 60

Time: 3.00 hrs

PM: 30

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Candidates are required to give their answers in their own words as far as practicable.

Attempt All the Questions:

Group "B"

6×5 = 30

1. Mention the various sources of demographic data and differentiate between census and sample survey.
2. Explain the various measures of Nuptiality in brief.
3. Define model life table and elucidate the UN Model Life Table for developing countries.

Or

Mention the trends of fertility and mortality in Nepal from initial to current population census.

4. What is meant by ratio method of population projection? How do you project rural/urban population in demographic analysis?
5. Write the concept of fertility and clarify the Crude Birth Rate (CBR) as a crude measure of fertility.
6. What are the types of errors in census and survey and explain each of them in brief?

Or

What does economically active population mean and what are the considerations to be taken to calculate it?

Group "C"

2×10 = 20

7. What is life table? Write the constructing procedures of complete and abridge life table in demographic analysis.
8. Explain the concept of population projection with the calculating procedures of arithmetic and geometric methods to project the future population of any region or country.

Or

State the various methods of detecting errors of data obtained from the census and describe about significant computational steps of UN Age-Sex Accuracy index to evaluate the quality of data.

THE END