

Model questions for Ph.D in Demography

1. Who among the following defined natural fertility as the marital fertility prevailing in a population in the absence of any deliberate birth control?
 - a. Easterlin
 - b. Inkeles
 - c. Louis Henry
 - d. Lesthaeghe

2. The International Day for Older Persons is celebrated on which day?
 - a. 1st July
 - b. 1st October
 - c. 11 th July
 - d. 11 th October

3. A function of variate for estimating a parameter is called:
 - a. an estimate
 - b. an estimator
 - c. a frame
 - d. a statistics

4. Which column of Life table provides mortality pattern in future
 - a. D_x
 - b. l_x
 - c. T_x
 - d. e^0_x

5. The test for the equality of two population variances is based on which of the following?
 - a. The difference between two sample variances
 - b. The ratio of the two sample variances
 - c. The ratio of the population variances to the sample variances
 - d. The difference between two population variances

Model questions for Ph.D in Biostatistics and Demography

1. What is meaning of a blind subject in clinical trial?
 - a. The subjects do not know which study treatment they receive
 - b. Patients injected with placebo and active doses
 - c. Fake Treatment
 - d. Signed document of the recruited patient for the clinical trial procedures

2. We use Factorial Analysis:
 - a. To know the relationship between two variables
 - b. To test the Hypothesis
 - c. To know the difference between two variables
 - d. To know the difference among the many variable

3. Homogeneity of several variances can be tested by:
 - a. Bartlett's test
 - b. Fisher's Exact test
 - c. F-test
 - d. t-test

4. The mean and variance of a binomial distribution are 8 and 4, respectively. Then, $P(X=1)$ is equal to:
 - a. $\frac{1}{2^{12}}$
 - b. $\frac{1}{2^4}$
 - c. $\frac{1}{2^6}$
 - d. $\frac{1}{2^8}$

5. If X is a normal variate with mean 20 and variance 64, the probability that X lies between 12 and 32 is:
 - a. 0.4332
 - b. 0.1189
 - c. 0.7475
 - d. 0.5

6. Homogeneity of several variances can be tested by:
 - a. Bartlett's test
 - b. Fisher's Exact test
 - c. F-test
 - d. t-test