

Roll No:

Application No:

Name:

Exam Date: **06-Oct-2020**

Exam Time: **09:00-12:00**

Examination: **1. Course Code - M.Phil.**

2. Field of Study - Population Studies (POPP)

SECTION 1 - SECTION 1

Question No.1 (Question Id - 35)

In which of the following frequency distribution the Mean, Median and Mode are same ?

- (A) 14, 09, 11, 10, 11, 13, 15
(B) **06, 11, 02, 10, 06, 01, 06 (Correct Answer)**
(C) 04, 03, 06, 05, 02, 06, 09
(D) 04, 15, 14, 15, 07, 05, 10

Question No.2 (Question Id - 45)

A qualitative study is conducted to :

- (A) Estimate prevalence rate of demographic or health indicators
(B) **To explore issues and challenges of demographic or health conditions (Correct Answer)**
(C) To estimate prevalence rate and identify the challenges
(D) None of the above

Question No.3 (Question Id - 75)

Arrange the following Indian population data sources by their years of initiation (Earliest to recent) :

- A. Population Census
B. Sample Registration System
C. Civil Registration System
D. National Family Health Survey

Choose the **correct** answer from the options given below :

- (A) A, B, C, D
(B) **A, C, B, D (Correct Answer)**
(C) C, A, B, D
(D) D, B, A, C

Question No.4 (Question Id - 31)

Which among the following factor is NOT associated with migration ?

- (A) Factors associated with area of origin
(B) Personal Factors
(C) **Sex ratio at place of origin (Correct Answer)**
(D) Intervening obstacles

Question No.5 (Question Id - 22)

Which one of the following indicator is a measure of the number of daughters that a cohort of newborn girl babies will bear during their lifetime assuming a fixed schedule of age-specific fertility rates and a fixed schedule of age-specific mortality rates ?

- (A) Total fertility rate
(B) Gross reproduction rate
(C) Child-woman ratio
(D) **Net reproduction rate (Correct Answer)**

Question No.6 (Question Id - 82)Match **List - I** with **List - II** :

List - I	List - II
Census year	Sex ratio
A. 1981	I. 934
B. 1991	II. 927
C. 2001	III. 940
D. 2011	IV. 933

Choose the **correct** answer from the options given below :

- (A) **A - I, B - II, C - IV, D - III (Correct Answer)**
(B) A - II, B - I, C - IV, D - III
(C) A - II, B - IV, C - I, D - III
(D) A - II, B - I, C - III, D - IV

Question No.7 (Question Id - 78)

Arrange the following states according to their level of urbanization in descending order as per Census of India, 2011.

- A. Tamil Nadu
B. Goa
C. Mizoram
D. Maharashtra

Choose the **correct** answer from the options given below :

- (A) A, B, C, D
(B) A, C, D, B
(C) **B, C, A, D (Correct Answer)**
(D) B, A, C, D

Question No.8 (Question Id - 38)

Bangladesh Paradox with relation to its population growth and fertility transition is contrary to the theory of :

- (A) Malthusian Theory
(B) **Demographic Transition Theory (Correct Answer)**
(C) Optimum Population Theory
(D) None of the above

Question No.9 (Question Id - 85)Match **List - I** with **List - II** :

List - I	List - II
A. Positive checks	I. Karl Marx
B. Reserve army of labour	II. Thomas R. Malthus
C. Sustainable development	III. Garrett Hardin
D. Tragedy of the commons	IV. Gro Harlem Brundtland

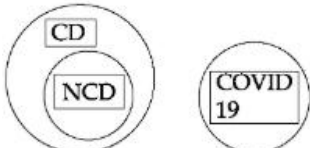


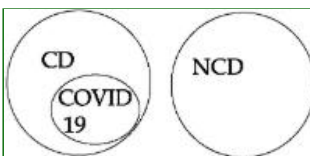
Choose the **correct** answer from the options given below :

- (A) A - IV, B - II, C - I, D - III

- (B) A - I, B - II, C - III, D - IV
 (C) A - II, B - I, C - IV, D - III (Correct Answer)
 (D) A - II, B - I, C - III, D - IV

Question No.10 (Question Id - 9)

Which among the following venn diagram explains the relationship between communicable disease (CD), non-communicable disease (NCD) and corona virus infection disease (COVID19) ?

- (A) 
- (B) 
- (C) 
- (D)  (Correct Answer)

Question No.11 (Question Id - 21)

Which one of the following measure is considered as the best indicator of overall population health and living condition of a country ?

- (A) Crude death rate
 (B) Neonatal mortality rate
 (C) Life expectancy at birth (Correct Answer)
 (D) Child mortality rate

Question No.12 (Question Id - 15)

Which among the following is referred as Ekistics ?

- (A) Study of human settlements (Correct Answer)
 (B) Study of atmospheric dynamics
 (C) Study of plate tectonics
 (D) Study of demographic transition

Question No.13 (Question Id - 61)

Given below are two statements : one is labelled as **Assertion A** and the other is labelled as **Reason R**.

Assertion A :

Census of India collects information about immigrants from households.

Reason R :

We can calculate emigrant rate using census of India 2011.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) Both **A** and **R** are correct and **R** is the correct explanation of **A**
 (B) Both **A** and **R** are correct but **R** is NOT the correct explanation of **A**
 (C) **A** is correct but **R** is not correct
 (D) **A is not correct but R is correct (Correct Answer)**

Case Study - 14 to 18 (Question Id - 97)

The public health evolution since 1945 is epitomized by the experience of the Algeria. In 1946, the death rate of Algerian Muslims exceeded Sweden's in 1775. By 1954, in spite of the guerrilla war against France, the Muslim death rate in Algeria was lower than Sweden's in 1875. Since the second quarter of the twentieth century, and specially since World War II, the poor countries of the world – often called “developing countries”, more euphemistically and hopefully – have experiences phenomenal falls in death rates and equally phenomenal increase in the numbers and share of the world population. From 1930 to 1990, the population of the world's developing countries (that is, everywhere except Europe, North America, Australia, New Zealand and Japan) more than triple from 1.3 billion to 4.1 billion, and grew from 64 percent of world population to 77 percent.

By the second quarter of the twentieth century, improvements in administration and transport made it possible to prevent local epidemics and famines from causing massive deaths. The population history of India illustrates the effects of controlling major lethal episodes. In 1891, the population of India was about 236 million, a bit less than the 1990 population of the United States. Over three decades from 1991, the average annual population growth rate was about 0.17 percent. The population enumerated in the census of 1901 was slightly below that in 1891 because of several famines during the decade. The population counted in 1921 was slightly below that in 1911 because of the influenza pandemic of 1918-19. After 1921, uncontrolled bursts of deaths from famine and disease stopped, while fertility remained high. From 1921 to 1951, the average annual population growth rate exceeded 1.2 percent. The rate of growth increased by a factor of more than six.

From 1929 onward, demographers observed the historical pattern and developed the theory of demographic transition. Those who thought the depressed fertility of the great Depression was permanent worried about the prospective decline of the populations of European Origin. But the demographers who took seriously the historical pattern of demographic transition, such as Frank W. Notestine, founder of Princeton University's Office of Population Research, foresaw a potential for Demographic growth in the world's poor countries. They supposed that modernization in the less developed region, which was necessary to alleviate poverty, would cause death rate to fall before birth rates. They forecasted rapid population growth in the large regions, that had then hardly modernized, including most of Asia, Africa, Latin America, the Caribbean and large islands populations of south east Asia. The less Developed countries would benefit from population policies that could shorten the gap between the fall in the death rate and fall in the birth rate.

The forecasts of some demographic transition theorists before and after World War II went in the right direction, but not far enough. No one guessed how large, the coming wave of population growth would be. Here are some examples, in the order in which they published. In 1936, Raymond Pearl and Sofia Gould projected 2.645 billion people by the end of the twenty first century. (That population size was surpassed before 1955.) In 1949, an Australian economist, Colin Clark, projected a 1 percent annual increase to 3.48 billion by 1990. (The actual population in 1990 was 5.3 billion.) The United Nations, projection published in 1951 estimated world population in mid-1950 around 2.4 billion people and projected a 1980 world population between 2.976 billion and 3.636 billion. (The 1950 population was probably closer to 2.5 billion, and the 1980 population was 4.4 billion.)

As Ansle J. Coale of Princeton observed, “The error was in understanding the pace of decline (in death rates), and over-stating the connection with over-all modernization.” After World War II, the rich countries of the world exported more health than wealth. Only late in the story did the export of wealth, in the form of the Green Revolution, become as prominent as the export of health. The contrast between the recent public health evolution and the earlier global agricultural evolution is dramatic. To simplify greatly, in and after the eighteen century, new foods probably improved the resistance of large populations to infections, and improved resistance to infection contributed to a gradual decline in death rates and a gradual rise in population growth. By contrast, in the twentieth century, and especially after World War II, research laboratories and public health institutions in the modernize countries developed ways to attack infections directly. Western Medicine introduced cheap death control: antibiotics, the biocide DDT to control insect vectors of infection and vaccines against smallpox, measles, whooping cough, neonatal tetanus, polio and diphtheria, as well as drugs that cured tuberculosis and malaria. Public health measures includes safer water supplies and ways of segregating and treating human wastes. Public health institutes and field techniques translated the new technologies into practices that affected the lives of hundreds of millions of people. These techniques, readily transferred from rich to poor countries without the necessity of great industrial or educational development, were absent or rare during the decline of mortality in eighteenth century Europe.

The consequences of death control through public health technology and organizational improvement have been dramatic in the past half century. Even countries with limited social and economic development increased their life expectancy by ten years in a single decade. Such improvements require large decreases in death rates. In retrospect, the demographic transition correctly described the change from high to low in the rates of death and birth in highly modernized societies. It correctly predicted that, in countries with high fertility and mortality at the end of the World War II, the death rates would drop before birth rates and population size would grow. It did not predict when the decline of fertility would begin or how fast the declines of mortality and fertility would proceed. It wrongly assumed that falling death rates had to be preceded or accompanied by socioeconomic development.

Question No.14 (Question Id - 98)

Given below are two statements : one is labelled as **Assertion A** and the other is labelled as **Reason R**.

Assertion A :

In the paragraph the author is arguing that the future prediction of population by different scholars in different time though nearly in the right direction but nearly far enough.

Reason R :

The prediction was not accurate as scholars underestimate the pace of decline in death rate and largely connected it to the over-all modernization.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) **Both A and R are true and R is the correct explanation of A (Correct Answer)**
- (B) Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
- (C) **A** is true but **R** is false
- (D) **A** is false but **R** is true

Question No.15 (Question Id - 99)

Given below are two statements : one is labelled as **Assertion A** and the other is labelled as **Reason R**.

Assertion A :

In the paragraph the author is arguing that the level of decline in the Death rates in poor countries is much faster after World War II than rich country, if it compared to the Demographic transition history of rich countries.

Reason R :

It is due to the large scale development and industrialization took place in these countries

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) Both **A** and **R** are true and **R** is the correct explanation of **A**
- (B) Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
- (C) **A is true but R is false (Correct Answer)**
- (D) **A** is false but **R** is true

Question No.16 (Question Id - 100)

Given below are two statements :

Statement I :

In the third paragraph of the abstract the author is talking about Second Stage of demographic transition theory in the context of less developed nations.

Statement II :

In the third paragraph of the abstract the author is talking about Third Stage of demographic transition theory in the context of less developed nations.

In the light of the above statements, choose the most appropriate answer from the options given below :

- (A) **Both Statement I and Statement II are true (Correct Answer)**
- (B) Both **Statement I** and **Statement II** are false
- (C) **Statement I** is correct but **Statement II** is false
- (D) **Statement I** is incorrect but **Statement II** is true

Question No.17 (Question Id - 101)

In the paragraph the author is arguing that the present level of population of world largely due to the contribution of :

- A. Improvement in Economic Development
- B. Improvements in Public Health Facility
- C. Improvements in the Public Administration
- D. Improvements in Transport and Communication

E. Improvements in use of Contraception

Choose the **correct** answer from the options given below :

- (A) A and B Only
- (B) A, B, and C Only
- (C) **A, B, C, and D Only (Correct Answer)**
- (D) A, B, C, D and E Only

Question No.18 (Question Id - 102)

In this Abstract Author tried to identify the cause of limitations of future predictions of population on the basis of Demographic transition. Factors contribute to this as cited by the author :

- A. Assumption related to falling death rates had to be preceded or accompanied by socioeconomic development.
- B. The Public Health technology readily transferred from rich to poor countries without necessity of great industrial or Educational development.
- C. Countries with limited social and economic countries with limited social and economic development increased their life expectancy.
- D. Poor countries became technologically advanced.

Choose the **correct** answer from the options given below :

- (A) **A and B Only (Correct Answer)**
- (B) A, B, and C Only
- (C) A, B, C, and D Only
- (D) A, B, C, D and E Only

Question No.19 (Question Id - 51)

Who among the following will NOT be considered as migrant in Indian data sources ?

- A. Person came to a place for vacation
- B. Person came to a place in search of job
- C. Person came to a place for seeking treatment
- D. Person came to a place for education

Choose the **correct** answer from the options given below :

- (A) A and B Only
- (B) B and C Only
- (C) A and D Only
- (D) **A and C Only (Correct Answer)**

Question No.20 (Question Id - 62)

Given below are two statements : one is labelled as **Assertion A** and the other is labelled as **Reason R**.

Assertion A :

Life expectancy of Scheduled castes is lower than that of General caste people in India.

Reason R :

Life expectancy is determined by the socio-economic status of the population.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) **Both A and R are true and R is the correct explanation of A (Correct Answer)**
- (B) Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
- (C) **A** is true but **R** is false
- (D) **A** is false but **R** is true

Question No.21 (Question Id - 19)

Which one of the following Index is used to measure age preference for terminal digital '0' and '5' ?

- (A) Wealth Index
- (B) Whipple's Index (Correct Answer)
- (C) Bachi's Index
- (D) Carrier's Index

Question No.22 (Question Id - 53)

What are the mechanisms through which girl's education leads to reduction of fertility ?

- A. Increase in age at marriage
- B. Better decision making power
- C. Better education of the children
- D. All of the above

Choose the **correct** answer from the options given below :

- (A) A and C Only
- (B) B and D Only
- (C) A and B Only (Correct Answer)
- (D) A and D Only

Question No.23 (Question Id - 16)

If a city's wards are increasing in the following manner, what will be the expected number of wards during next enumeration ?

3, 12, 27, 48, 75, 108, ___?___.

- (A) 147 (Correct Answer)
- (B) 155
- (C) 167
- (D) 175

Question No.24 (Question Id - 11)

Which of the following countries maintain Population Registrar data ?

- (A) Nordic Countries (Correct Answer)
- (B) Far Eastern Countries
- (C) South American Countries
- (D) East European Countries

Question No.25 (Question Id - 57)

Which of the following components are employed to analyze changes in the sex ratio in any region ?

- A. Sex ratio at birth
- B. Sex ratio at death
- C. Sex ratio of migrants
- D. Sex differentials in reporting

Choose the **correct** answer from the options given below :

- (A) A, B, C, Only
- (B) A, B, C, D Only (Correct Answer)
- (C) B, C, D Only
- (D) A, B, D Only

Question No.26 (Question Id - 23)

A process by which immigrants adopt the host language, food habits and participate in cultural activities of host society is referred as :

- (A) Adaptation

- (B) Adjustment
(C) **Acculturation (Correct Answer)**
(D) Integration

Question No.27 (Question Id - 74)

Arrange the following steps from beginning to end for preparing a research report.

- A. Setting objectives
B. Literature review
C. Data collection
D. Data processing
E. Report Writing

Choose the **correct** answer from the options given below :

- (A) **A, B, C, D, E (Correct Answer)**
(B) B, A, C, D, E
(C) C, D, A, B, E
(D) A, C, D, B, E

Question No.28 (Question Id - 42)

The cohort component method of projection is a :

- (A) Mathematical model
(B) **Empirical model (Correct Answer)**
(C) Relational model
(D) Statistical model

Question No.29 (Question Id - 7)

By which year the countries need to achieve the Sustainable Development Goals ?

- (A) 2020
(B) 2025
(C) **2030 (Correct Answer)**
(D) 2035

Question No.30 (Question Id - 27)

Any characteristics of a population that is measurable is called as :

- (A) **Parameter (Correct Answer)**
(B) Statistics
(C) Sampling
(D) Variable

Question No.31 (Question Id - 49)

Suppose, A is the destination country and B is the source country for migration. We are interested to calculate in-migration rate of the country B. Which of the following is correct ?

- (A) (Number of in migrants from B to A in year t/Population in B in the year t)*1000
(B) (Number of in migrants from A to B in year t/Population in A in the year t)*1000
(C) (Number of in migrants from A to B in year t/Population in B in the year t)*1000
(D) **(Number of in migrants from other countries to B in year t/Population in B in the year t)*1000**

(Correct Answer)

Question No.32 (Question Id - 59)

Which of the following correctly describes characteristics of population pyramid ?

- A. It consists of bars representing age groups in ascending order
- B. The bars for male are given on the left of the central vertical axis
- C. The bars for females are given on the right of the central vertical axis
- D. Number of males or females in a particular age group is indicated by length of the bar from central axis
- E. Absolute pyramid shows the differences or changes in the proportional size of each age-group

Choose the **correct** answer from the options given below :

- (A) A, B, D, E Only
- (B) A, C, D, E Only
- (C) **A, B, C, D Only (Correct Answer)**
- (D) B, C, D, E Only

Question No.33 (Question Id - 68)

Given below are two statements : one is labelled as **Assertion A** and the other is labelled as **Reason R**.

Assertion A :

Tempo effects refers short-term fluctuations in total fertility rate with impression that overall fertility has fallen or risen.

Reason R :

Tempo effect happens because of changing in the timing of births.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) **Both A and R are true and R is the correct explanation of A (Correct Answer)**
- (B) Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
- (C) **A** is true but **R** is false
- (D) **A** is false but **R** is true

Question No.34 (Question Id - 20)

In how many years should a country 'x' population may double if it is growing with a constant population growth rate of 1.35 percent ?

- (A) 46 years
- (B) 49 years
- (C) **51 years (Correct Answer)**
- (D) 56 years

Question No.35 (Question Id - 26)

The process of restoration and habitation of older homes in central city by urban or sub-urban elites is known as :

- (A) **Gentrification (Correct Answer)**
- (B) Regeneration
- (C) Re-urbanization
- (D) Sanscape

Question No.36 (Question Id - 89)

Match **List - I** with **List - II** :

List - I	List - II
Data Source	Frequency of Data Collection
A. SRS	I. Annual since 1970
B. Census	II. 10 years
C. CRS	III. No Definite Period
D. NFHS	IV. Annual Since 1958

Choose the **correct** answer from the options given below :

- (A) A - I, B - II, C - III, D - IV
(B) **A - I, B - II, C - IV, D - III (Correct Answer)**
(C) A - II, B - I, C - III, D - IV
(D) A - II, B - I, C - IV, D - III

Question No.37 (Question Id - 17)

Which is the odd from the following indicators ?

- (A) Migration rate
(B) Marriage rate
(C) **Expectation of life (Correct Answer)**
(D) Literacy rate

Question No.38 (Question Id - 40)

Number of children which a women of hypothetical cohort would bear during her life time if she were to bear children throughout her life at the age specific fertility rates for a given year if NONE of them dies before crossing the age of reproduction is termed as :

- (A) **TFR (Correct Answer)**
(B) TMFR
(C) GRR
(D) NRR

Question No.39 (Question Id - 84)

Match **List - I** with **List - II** :

List - I	List - II
A. Post neonatal mortality	I. Deaths within 28 days of life
B. Neonatal mortality	II. Deaths during 1 – 4 years of life
C. Infant mortality	III. Deaths during 29 to 365 days of life
D. Child mortality	IV. Deaths within first year of life

Choose the **correct** answer from the options given below :

- (A) A - IV, B - II, C - I, D - III
(B) A - I, B - II, C - III, D - IV
(C) **A - III, B - I, C - IV, D - II (Correct Answer)**
(D) A - II, B - I, C - III, D - IV

Question No.40 (Question Id - 76)

Arrange the following events in chronological order (beginning from first) :

- A. Our common future
B. United Nations Conference on Environment and Development, Rio de Janeiro
C. Kyoto Protocol
D. Earth Summit, Johannesburg

E. United Nations Convention on Climate Change, The Hague

Choose the **correct** answer from the options given below :

- (A) A, B, C, D, E
- (B) **A, B, C, E, D (Correct Answer)**
- (C) A, B, D, E, C
- (D) B, A, C, D, E

Question No.41 (Question Id - 14)

Which of the following condition refers to the term "Population momentum" ?

- (A) Population size reduces after replacement level of fertility.
- (B) **Population size continues to increase after replacement level of fertility. (Correct Answer)**
- (C) Population size is constant after replacement level of fertility.
- (D) Population size first increases and then decreases after replacement level of fertility.

Question No.42 (Question Id - 41)

Which one of the following represent the practice of marriage of his wife's sister by a widower ?

- (A) Concubinage
- (B) **Sororate (Correct Answer)**
- (C) Levirate
- (D) Polygamy

Question No.43 (Question Id - 13)

What will be the sex ratio at birth (females per 1000 males), if there are 100 females per 105 male births ?

- (A) 900
- (B) 925
- (C) **952 (Correct Answer)**
- (D) 975

Question No.44 (Question Id - 55)

Which among the following is considered to understand the concept of ecological footprint ?

- A. Crop land
- B. Grazing land
- C. Amount of rainfall
- D. Soil Nutrient

Choose the **correct** answer from the options given below :

- (A) **A and B Only (Correct Answer)**
- (B) B and C Only
- (C) A and C Only
- (D) B and D Only

Question No.45 (Question Id - 70)

Given below are two statements :

Statement I:

The term "de jure" counts in both resident's presents and visitors in Census.

Statement II:

The term "de facto" counts in only usual residents in census.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) Both **Statement I** and **Statement II** are correct
- (B) **Both Statement I and Statement II are incorrect (Correct Answer)**
- (C) **Statement I** is correct but **Statement II** is incorrect
- (D) **Statement I** is incorrect but **Statement II** is correct

Question No.46 (Question Id - 30)

When population loss of the urban core exceeds population gain of the urban ring, it is termed as :

- (A) **Counter-urbanization (Correct Answer)**
- (B) Re-urbanization
- (C) Urbanization
- (D) Ex-urbanization

Question No.47 (Question Id - 63)

Given below are two statements : one is labelled as **Assertion A** and the other is labelled as **Reason R**.

Assertion A :

Sex ratio at birth for Punjab is less than 900.

Reason R :

There is sex selective abortion in Punjab.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) **Both A and R are true and R is the correct explanation of A (Correct Answer)**
- (B) Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
- (C) **A** is true but **R** is false
- (D) **A** is false but **R** is true

Question No.48 (Question Id - 1)

What is the Child (0-6 years) Sex Ratio of India according to Census 2011 ?

- (A) **919 (Correct Answer)**
- (B) 929
- (C) 939
- (D) 949

Question No.49 (Question Id - 69)

Given below are two statements :

Statement I:

The median age of Kenya is 15.9 years.

Statement II:

The population of Kenya is young population.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both Statement I and Statement II are correct (Correct Answer)**
- (B) Both **Statement I** and **Statement II** are incorrect
- (C) **Statement I** is correct but **Statement II** is incorrect
- (D) **Statement I** is incorrect but **Statement II** is correct

Question No.50 (Question Id - 86)

Match **List - I** with **List - II** :

List - I	List - II
Data Source	Level of Estimation
A. Census	I. Regional Level
B. NSSO	II. District Level
C. CRS	III. Village Level
D. NFHS I & II	IV. State Level

Choose the **correct** answer from the options given below :

- (A) **A - III, B - I, C - II, D - IV (Correct Answer)**
(B) A - I, B - II, C - III, D - IV
(C) A - I, B - IV, C - III, D - II
(D) A - I, B - III, C - II, D - IV

Question No.51 (Question Id - 46)

Which of the following measures of central tendency is used to estimate the average size of shoes in a certain population ?

- (A) Mean
(B) Median
(C) **Mode (Correct Answer)**
(D) Standard deviation

Question No.52 (Question Id - 50)

In January 1st, 2010, there are four persons, named as A, B, C and D. Person died 30th June 2010; Person B and D lived until 31st December 2010; person C lived until 31st March 2010. What is the total person-years lived by all for persons between 1st January to 31st December 2010 ?

- (A) **2.75 years (Correct Answer)**
(B) 4 years
(C) 3.75 years
(D) 2 years

Question No.53 (Question Id - 52)

Which of the following are targets of SDG goal on good health and well-being ?

- A. To reduce maternal mortality rate/ratio
B. To reduce under five mortality rate 25 per thousand live births
C. To reduce the environmental pollution
D. To reduce premature death rates

Choose the **correct** answer from the options given below :

- (A) A, B, C Only
(B) B, C, D Only
(C) **A, B, D Only (Correct Answer)**
(D) A, C, D Only

Question No.54 (Question Id - 48)

An experiment is called as random :

- (A) **When we know all probable outcomes but we do not know the exact outcome of a trial (Correct Answer)**
(B) When all probable outcomes have equal chance of occurrence
(C) Both of the statement are correct

(D) None of the above correct

Question No.55 (Question Id - 4)

Which among the following is estimated though child woman ratio ?

- (A) **Fertility (Correct Answer)**
(B) Mortality
(C) Migration
(D) Family Planning

Question No.56 (Question Id - 77)

Arrange the following according to the Burgess Concentric Zone Model of urban land-use.

- A. Central Business District
B. Commuter belt
C. Transitional zone
D. Working Men's Home
E. Better residence

Choose the **correct** answer from the options given below :

- (A) A, B, C, D, E
(B) **A, C, D, E, B (Correct Answer)**
(C) A, B, D, E, C
(D) B, A, C, D, E

Question No.57 (Question Id - 71)

Given below are two statements :

Statement I:

Population size and density in India has always remained high.

Statement II:

High population density leads to overexploitation of natural resources.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both Statement I and Statement II are correct (Correct Answer)**
(B) Both **Statement I** and **Statement II** are incorrect
(C) **Statement I** is correct but **Statement II** is incorrect
(D) **Statement I** is incorrect but **Statement II** is correct

Question No.58 (Question Id - 60)

Which of the following are examples of indirect population policies ?

- A. Promoting education
B. Economic development
C. Universal access to birth control methods
D. Legalize abortion
E. Increased labour force opportunities for women

Choose the **correct** answer from the options given below :

- (A) A, B, C, D Only
(B) A, C, D, E Only
(C) **A, B, E Only (Correct Answer)**

(D) A, B, D, E Only

Question No.59 (Question Id - 81)

Match **List - I** with **List - II** :

List - I	List - II
A. The probability of dying in age interval (x to x+n)	I. T_x
B. Number living at the beginning of age interval	II. ${}_nq_x$
C. Number of person-years that would be lived within the indicated age-interval	III. ${}_nL_x$
D. Total number of person-years that would be lived after beginning of indicated age-interval	IV. I_x

Choose the **correct** answer from the options given below :

- (A) **A - II, B - IV, C - III, D - I (Correct Answer)**
(B) A - II, B - IV, C - I, D - III
(C) A - II, B - III, C - IV, D - I
(D) A - IV, B - III, C - II, D - I

Question No.60 (Question Id - 56)

Which among the following are considered in gravitational model of migration as perceived by Zipf ?

- A. Population at origin
B. Population at destination
C. Distance between two places
D. Transport facilities between two places

Choose the **correct** answer from the options given below :

- (A) A, B, and D Only
(B) **A, B and C Only (Correct Answer)**
(C) B, C and D Only
(D) A, C and D Only

Question No.61 (Question Id - 88)

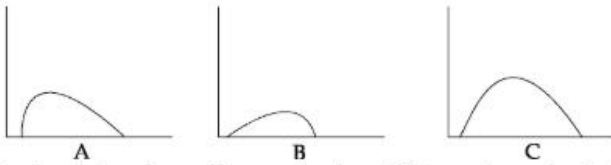
Match **List - I** with **List - II** :

List - I	List - II
A. Theories of change and response	I. J.C. Caldwell
B. Socio-economic theories	II. R.A. Easterlin
C. Theory of intergenerational Flow	III. The United Nations
D. The threshold Hypothesis	IV. Kingsley Davis

Choose the **correct** answer from the options given below :

- (A) **A - IV, B - III, C - I, D - II (Correct Answer)**
(B) A - IV, B - II, C - III, D - I
(C) A - II, B - I, C - IV, D - III
(D) A - III, B - I, C - II, D - IV

Question No.62 (Question Id - 36)



Each of the above figures depicts different hypothetical frequency distribution. In which of the above figures the mean is higher than the median ?

- (A) **A (Correct Answer)**
 (B) B
 (C) C
 (D) None of the above

Question No.63 (Question Id - 72)

Given below are two statements :

Statement I:

The median age of Ethiopia is 16.9 years.

Statement II:

The population of Ethiopia is young population.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both Statement I and Statement II are correct (Correct Answer)**
 (B) Both **Statement I** and **Statement II** are incorrect
 (C) **Statement I** is correct but **Statement II** is incorrect
 (D) **Statement I** is incorrect but **Statement II** is correct

Question No.64 (Question Id - 66)

Given below are two statements : one is labelled as **Assertion A** and the other is labelled as **Reason R**.

Assertion A :

Total fertility rate is an age standardized measure of fertility.

Reason R :

Survival probability of women aged reproductive age is adjusted in total fertility rate.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) Both **A** and **R** are true and **R** is the correct explanation of **A**
 (B) Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
 (C) **A is true but R is false (Correct Answer)**
 (D) **A** is false but **R** is true

Question No.65 (Question Id - 67)

Given below are two statements : one is labelled as **Assertion A** and the other is labelled as **Reason R**.

Assertion A :

Internal migration rate of females is higher than that of males.

Reason R :

Women migrate internally because of marriage.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) Both **A** and **R** are true and **R** is the correct explanation of **A** (Correct Answer)
 (B) Both **A** and **R** are true but **R** is NOT the correct explanation of **A**
 (C) **A** is true but **R** is false
 (D) **A** is false but **R** is true

Question No.66 (Question Id - 29)

Which of the following is NOT an example of content error in census of India ?

- (A) Preference of age ended by digit 5
 (B) Underreporting of old and disabled
 (C) Misreporting of place of birth
 (D) **No coverage of an area (Correct Answer)**

Question No.67 (Question Id - 83)

Match List - I with List - II :

List - I	List - II
A. Official family planning programme of India	I. 1992
B. Enactment of Panchayat Raj	II. 2000
C. India's population policy	III. 1952
D. Health policy of India	IV. 2017

Choose the **correct** answer from the options given below :

- (A) A - I, B - III, C - II, D - IV
 (B) A - II, B - IV, C - I, D - III
 (C) A - III, B - I, C - IV, D - II
 (D) **A - III, B - I, C - II, D - IV (Correct Answer)**

Question No.68 (Question Id - 80)

Arrange the Countries according to the population size in ascending order during 2015-2019.

- A. Brazil
 B. Germany
 C. India
 D. China
 E. Lithuania

Choose the **correct** answer from the options given below :

- (A) **E < B < A < C < D (Correct Answer)**
 (B) A < B < E < C < D
 (C) E < A < B < C < D
 (D) E < A < C < B < D

Question No.69 (Question Id - 5)

Approximately on which year world population has reached 1 billion mark ?

- (A) 1700
 (B) 1750
 (C) **1800 (Correct Answer)**
 (D) 1850

Question No.70 (Question Id - 32)

Which among the following is possible to calculate from Population Registrar data ?

- (A) Only period rates of fertility and mortality
 (B) Only cohort rates of fertility and mortality

- (C) Both of the above (Correct Answer)
 (D) None of the above

Question No.71 (Question Id - 87)

Match List - I with List - II :

List - I	List - II
A. Ravenstein	I. Intervening obstacle
B. Evertt Lee	II. Mobility transition
C. Wilbur Zelinsky	III. Intervening opportunities
D. Samuel Stauffer	IV. Law of migration

Choose the **correct** answer from the options given below :

- (A) A - IV, B - I, C - II, D - III (Correct Answer)
 (B) A - I, B - III, C - II, D - IV
 (C) A - II, B - I, C - IV, D - III
 (D) A - III, B - I, C - II, D - IV

Question No.72 (Question Id - 79)

Arrange the following life table functions from beginning till end.

- A. ${}_n d_x$
 B. l_x
 C. T_x
 D. L_x
 E. e^0_x

Choose the **correct** answer from the options given below :

- (A) A, C, D, B, E
 (B) B, A, D, C, E (Correct Answer)
 (C) C, D, E, B, A
 (D) D, E, A, B, C

Question No.73 (Question Id - 64)

Statement I :

The Gini ratio falls between 0.0 and 1.0.

Statement II :

The Gini concentration ratio measures the degree of inequality or size of the gap.

In the light of the above statements, choose the **correct** answer from the options given below :

- (A) Both **Statement I** and **Statement II** are Incorrect
 (B) Both **Statement I** and **Statement II** are correct (Correct Answer)
 (C) **Statement I** is correct but **Statement II** is incorrect
 (D) **Statement I** is incorrect but **Statement II** is correct

Question No.74 (Question Id - 65)

Assertion A :

Life table population is a stationary population.

Reason R :

A stationary population has constant birth, death and zero migration.

In the light of the above statements, choose the **most appropriate** answer from the options given below :

- (A) **Both A and R are true and R is the correct explanation of A (Correct Answer)**
- (B) Both A and R are true but R is NOT the correct explanation of A
- (C) A is true but R is false
- (D) A is false but R is true

Question No.75 (Question Id - 6)

Which among the following is correct balancing equation to find out the population of P2 when P1 is population of previous time; B is births; D is deaths; IM is in-migration; and OM is out-migration ?

- (A) **$P2 = P1 + B - D + IM - OM$ (Correct Answer)**
- (B) $P2 = P1 - B + D + IM - OM$
- (C) $P2 = P1 + B - D + IM + OM$
- (D) $P2 = P1 - B - D + IM - OM$

Question No.76 (Question Id - 47)

National Policy for older person in India was formulated in the Year :

- (A) 1998
- (B) **1999 (Correct Answer)**
- (C) 2000
- (D) 1997

Question No.77 (Question Id - 73)

Arrange the following rural settlements by their low to high level of physical nearness.

- A. Compact
- B. Dispersed
- C. Hamlet
- D. Semi-compact

Choose the **correct** answer from the options given below :

- (A) D, A, C, B
- (B) B, A, D, C
- (C) A, D, C, B
- (D) **C, B, D, A (Correct Answer)**

Question No.78 (Question Id - 39)

Which is a direct determinant of fertility ?

- (A) Education
- (B) Living Arrangement
- (C) Income
- (D) **Marriage (Correct Answer)**

Question No.79 (Question Id - 43)

WHO's definition of "death" defined as :

- (A) **Permanent disappearance of life after live births (Correct Answer)**
- (B) Permanent disappearance of life before or after live births including pre-natal death
- (C) Ceasing breathing system of the body
- (D) All of the above

Question No.80 (Question Id - 58)

Which of the following could be estimated by using Intercensal cohort analysis ?

- A. Mortality
- B. Migration
- C. Census undercount
- D. Refugee movements
- E. Volume of Tourists

Choose the **correct** answer from the options given below :

- (A) **A, B, C Only (Correct Answer)**
- (B) A, B, C, D Only
- (C) A, B, C, E Only
- (D) A, B, D Only

Case Study - 81 to 85 (Question Id - 91)

Table. Age Sex composition of two population groups in India, Census 2011 (In Lakhs)

Group	Hindu			Muslim		
	Persons	Males	Females	Persons	Males	Females
0 - 4	872	452	420	174	89	85
5 - 9	1012	527	485	203	105	98
10 - 14	985	519	466	192	100	92
15 - 59	4752	2466	2286	731	378	352
60 +	632	311	321	79	40	40
Total	8253	4275	3978	1379	712	667

Question No.81 (Question Id - 92)

Given below are two statements :

Statement I :

The sex ratio of 0-4 aged population of Hindu population is higher than that of Muslim population.

Statement II :

Sex selection is higher among Hindu Population than Muslim Population.

- (A) Both **Statement I** and **Statement II** are correct
- (B) Both **Statement I** and **Statement II** are incorrect
- (C) **Statement I** is correct but **Statement II** is incorrect
- (D) **Statement I is incorrect but Statement II is correct (Correct Answer)**

Question No.82 (Question Id - 93)

Given below are two statements :

Statement I :

Child women ratio among Hindus : 381 per 1000 women; for Muslims : 493 per 1000 women.

Statement II :

Fertility among Muslims population is higher than Hindu Population.

- (A) **Both Statement I and Statement II are correct (Correct Answer)**

- (B) Both **Statement I** and **Statement II** are incorrect
(C) **Statement I** is correct but **Statement II** is incorrect
(D) **Statement I** is incorrect but **Statement II** is correct

Question No.83 (Question Id - 94)

The share of Hindu population to total population presented in the above table :

- (A) 90 percent
(B) 80 percent
(C) **85 percent (Correct Answer)**
(D) 75 percent

Question No.84 (Question Id - 95)

Which of the following statement is **true** ?

- (A) **Old age dependency ratio among Hindus is higher than of Muslim populations. (Correct Answer)**
(B) Old age dependency ratio among Hindus is lower than of Muslim populations.
(C) Old age dependency ratios are equal for both Hindus and Muslim Populations.
(D) None of the above

Question No.85 (Question Id - 96)

What is the sex ratio of total population presented in the above table ?

- (A) **932 per 1000 males (Correct Answer)**
(B) 950 per 1000 males
(C) 1000 per 1000 males
(D) 850 per 1000 males

Question No.86 (Question Id - 12)

Country A has young age structure; Country B has old age structure. When you calculate crude death rate for each country, which of the following is true ?

- (A) **CDR of A < CDR of B (Correct Answer)**
(B) CDR of A > CDR of B
(C) CDR of A = CDR of B
(D) None of the above

Question No.87 (Question Id - 54)

Which of the following are measures of dispersion ?

- A. Standard Deviation
B. Range
C. Median
D. Co-efficient of variation
E. Mean deviation

Choose the **correct** answer from the options given below :

- (A) A, B, C Only
(B) **A, B, D, E Only (Correct Answer)**
(C) B, C, D, E Only
(D) A, B, C, D Only

Question No.88 (Question Id - 28)

Which of the following is true ?

- (A) **$NRR = GRR * (I_x/10)$ (Correct Answer)**
(B) $GRR = NRR * (I_x/10)$
(C) $NRR = TFR * (I_x/10)$

(D) None of the above

Question No.89 (Question Id - 24)

A combination of under count and over count of population in a Census is termed as :

- (A) Content error
- (B) **Coverage error (Correct Answer)**
- (C) Data error
- (D) Data manipulation

Question No.90 (Question Id - 10)

Which among the following describes the tempo of urbanization ?

- (A) Level of urbanization
- (B) Ratio of Urban to Rural population.
- (C) Ratio of urbanization of a state to the ratio of urbanization of a country
- (D) **Rate of change in the level of urbanization (Correct Answer)**

Question No.91 (Question Id - 3)

Which one of the following is **not** a preventive check to population ?

- (A) Moral Restraint
- (B) **Infanticide (Correct Answer)**
- (C) Celibacy
- (D) Late Marriage

Question No.92 (Question Id - 33)

Which is not an Intermediate determinant of fertility ?

- (A) Lactational Infecundability
- (B) Duration of the Fertility Period
- (C) Frequency of Intercourse
- (D) **Frequency of Health Check-up during Pregnancy (Correct Answer)**

Question No.93 (Question Id - 44)

Which of the following statement is true while conducting sample survey ?

- (A) **A schedule is filled up by the enumerator whereas a questionnaire is filled up by respondent.**
(Correct Answer)
- (B) A schedule is filled up by the respondent whereas a questionnaire is filled up by enumerator.
- (C) Both schedule and questionnaires are filled up by enumerator.
- (D) Both schedule and questionnaires are filled up by respondent.

Question No.94 (Question Id - 37)

Which condition are NOT useful for technique of standardization ?

- (A) One is comparing an aggregate-level variable among two or more population or in the same population over time.
- (B) The variable takes on different values from subgroup to subgroup with in each population.
- (C) One wishes to minimize the effect on the comparison of differences in the composition of the population according to these subgroups.
- (D) **One wishes to compare aggregate-level variable between population and sample.**
(Correct Answer)

Question No.95 (Question Id - 34)

A study has to be carried out on the sexual behavior of queer's In South-west District of Delhi. What is the most suitable type of sampling technique should be adopted for the study ?

- (A) **Snowball sampling (Correct Answer)**
- (B) Simple Random sampling
- (C) Stratified Random sampling
- (D) Systematic sampling

Question No.96 (Question Id - 90)

Match **List - I** with **List - II** :

List - I	List - II
A. Counting person where they are found	I. Coverage error
B. Counting person according to usual residence	II. De jure
C. Double counting of person	III. Content error
D. Omission in characteristics of person	IV. De facto

Choose the **correct** answer from the options given below :

- (A) A - II, B - IV, C - III, D - I
- (B) A - II, B - IV, C - I, D - III
- (C) A - IV, B - II, C - III, D - I
- (D) **A - IV, B - II, C - I, D - III (Correct Answer)**

Question No.97 (Question Id - 2)

Which of the following survey follows "Dual Record System" which combines the registration and survey methods ?

- (A) Civil Registration System
- (B) National Family Health Survey
- (C) **Sample Registration System (Correct Answer)**
- (D) National Sample Survey

Question No.98 (Question Id - 18)

Which one of the following measure is used for measuring the diversity of multiple sub-groups of population in a region ?

- (A) Gini concentration ratio
- (B) Index of dissimilarity
- (C) **Entropy index (Correct Answer)**
- (D) Isolation index

Question No.99 (Question Id - 25)

The pattern of long term shifts in health and disease patterns as mortality moves from high levels to low levels is referred as :

- (A) Medical transition
- (B) Demographic transition
- (C) **Epidemiological transition (Correct Answer)**
- (D) Health transition

Question No.100 (Question Id - 8)

Which among the following describes a region as ecological reserve ?

- (A) Bio-capacity is less than ecological footprint
- (B) Bio-capacity is equal to ecological footprint
- (C) **Ecological footprint is less than bio-capacity (Correct Answer)**
- (D) None of the Above

