

57. In this question, we have been basically asked which curve of following represent the time path of population of a developing economy.

So, first of all we will try to understand what is nature of time path of population of a developing economy. We know that as an underdeveloped country starts to come out of the trap of low level of output. Economic activities gathers momentum and sectorial structure of the economy just starts to change, that country we call as developing country.

During such change i.e., increment in the output will lead more availability goods and services to the society. Basic needs will be fulfilled. Health and Nutritional status will be improved. Which will cause decline in death rate and the population will rise.

So, we have known that the population rises rapidly in the developing economy.

Now, we have to see which curve shows rapid growth with

So, (i) Lorenz Curve : This curve will not represent because Lorenz curve shows the distribution of income and measures inequality of time.

(ii) Hyperbolic Curve : This curve will also not represent because this is used to show such change where one variable decreases when the other variable increases.

Now, two curves i.e., Exponential curve and logistic curves are left. Both curves are used to show the growth with time. But there is a difference. Exponential curve is used to show rapid growth with time and logistic curve is used to show slow growth with time. as given below.

