

BSc Sem.-4 Examination

CC-205

Statistics

April 2022

Time : 2-00 Hours]

[Max. Marks : 50

Section A: Attempt any Three

42

- Q.1 (a) What is index number? Give its uses and limitations. 7
 (b) How the cost of living index number is constructed? Which are the possible errors that can occur in its construction? Give your suggestion to reduce the error. 7
- Q.2 (a) Define index number. Write its uses and limitations 7
 (b) Write a note on time reversal test and factor reversal test. 7
- Q.3 (a) What is time series? Explain its usefulness. 7
 (b) What do you mean by seasonal variations? How will you differentiate it from cyclical variations? 7
- Q.4 (a) Explain moving average method of determining trend. 7
 (b) State the various components of time series and describe it. 7
- Q.5 (a) Give the meaning of crude and standardized death rates. How are they used in comparing the standards of health in two cities? 7
 (b) Explain the terms: General fertility rate, Infant mortality rate and Crude birth rate. 7
- Q.6 (a) Write a short note on cost of living index number. 7
 (b) Write a short note on wholesale price index number. 7
- Q.7 (a) Explain fixed based index numbers and chain based index numbers for the construction of index number. Also give its merits and demerits. 7
 (b) What is Fisher's index number? Why it is called ideal index number? 7
- Q.8 (a) Explain method of collecting demographic statistics. 7
 (b) Write a detail note on vital statistics. 7

Section-B Attempt any 8

08

- 1 Index numbers are also known as
 (a) economic barometer (b) social barometer
 (c) both (d) none of the above
- 2 Fisher's ideal index number satisfies circular test
 (a) yes (b) no
 (c) may be (d) none of them
- 3 There are _____ methods for determining trends in time series

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- (a) 3 (b) 5
(c) 4 (d) 6
- 4 Full form of TFR
(a) Total fertility rate (b) Total fraction rate
(c) Time fertility rate (d) Time fraction rate
- 5 The word demography is derived from _____ language
(a) Latin (b) French
(c) Spanish (d) English
- 6 Index number for base year is always considered as _____
(a) 100 (b) 101
(c) 201 (d) 1000
- 7 Seasonal variations are
(a) short term variation (b) Long term variation
(c) Lost term variation (d) None of the above
- 8 Prosperity, recession and depression is an example of
(a) Cyclical trend (b) seasonal trend
(c) Irregular trend (d) none of the above
- 9 Index number is special type of
(a) Average (b) Dispersion
(c) Variance (d) Correlation
- 10 Full form of CBR is
(a) crude birth rate (b) cream birth rate
(c) crude bibliography rate (d) crude bless rate

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