WEST BENGAL STATE UNIVERSITY

CBCS General 4th Semester Examinations, 2022 STSHGEC04T/ STSGCOR04T- STATISTICS (GE4/DSC4)

Applied Statistics

Time Alloted: 2 Hours Full Marks : 40

Answer any four questions from the following:	$5 \times 4 = 20$
(1) Discuss two measures of population growth.	
(2) Discuss with examples, different components of a time series. How can they be	combined? $3+2$
(3) Discuss standardised death rate. What is the main purpose of its construction?	3 + 2
(4) What is purchasing power of money? Define real wage? What are their uses?	2 + 2 + 1
(5) What is consumer's price index number? What are the use of it?	3 + 2
(6) What is a chain index number? Discuss its advantages and disadvantages over number.	fixed-based index $2+3$
Answer any two from the following questions:	$2 \times 10 = 20$
(7) (i) Show that Fisher's ideal index number satisfies time reversal and factor rev	versal tests.
(ii) What choices of weight in the arithmetic mean of price relatives gives the La	aspeyres' formula? $5+5$
(8) Discuss all the steps for determination of seasonal indices by method of ratio to	trend. 10
(9) (i) Describe merits and demerits of moving average method compared to manifitting method in determining trend.	athematical curve
(ii) How to obtain monthly trend equation from annual data? Illustrate.	
	5 + 5
(10) Describe the columns of a complete life table explaining their significance.	10