

**W-417(A)/W-418(A)****B.Sc. (Third Year) Examination, (Second Chance) March/April-2020****STATISTICS****Paper - I & II****Applied Statistics / SQC and Design of Experiments***Time : Three Hours***Maximum Marks : 40+40=80 (For Regular Students)****Minimum Pass Marks : 33%****Maximum Marks : 50+50=100 (For Private Students)****Minimum Pass Marks : 33%****Note :** Attempt **all** questions.**Section-A**

- Q.1. Describe Crude Death Rate (CDR) and Standard Death Rate (SDR) with examples. 13/16
- Q.2. Describe Age specific birth rate and general fertility rate also write merits and demerits. 13/17
- Q.3. Construct index number by using Fisher's ideal formula and show how it satisfies factor reversal test from the data given below. 14/17

Commodity	Value (Rs)		Base Year	Current Year
	Base year	Current year	Quantity	Price
A	300	560	50	10
B	200	240	100	2
C	240	360	60	6
D	300	288	30	12
E	320	432	40	12

**Section-B**

- Q.4. Explain derive the statistical analysis of the one-way classification. 13/16
- Q.5. Define the following terms : 13/17
- Principle of an experimental design.
  - Local control
- Q.6. Define the following terms : 14/17
- Layout of Design
  - Advantage of Latin sq<sup>2</sup> design.

