

**W-417/W-418****B.Sc. (Third Year) Examination, 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 Vital Statistic and also their method of obtaining Vital Statistic Registration Method. 13/16
- Q.2. Define stationary and stable population and also describe "Lotka" model for stable population. 13/17
- Q.3. Define index number. Discuss the uses and limitation of index number. 14/17

**Section-B**

- Q.4. Define the following terms: 13/16  
i) Control - charts  
ii)  $\bar{X}$  and R charts.
- Q.5. Explain the following terms: 13/17  
i) AQL  
ii) LTPD  
iii) Consumer's Risk
- Q.6. Explain the derivation of one-way classification with mathematical model. 14/17

