

U.G. 5th Semester Examination - 2020**STATISTICS****(HONOURS)****Discipline Specific Elective (DSE)****Course Code : STAT(H)DSE-1/PR****[PRACTICAL]****(Statistical Quality Control-Lab)**

Full Marks : 25(20+5)

Time : 2 Hours

*The figures in the right-hand margin indicate marks.***Answer all the questions.**

1. For lots of size 3000, if the process average is 1% and the consumer's lot tolerance percent defective is 3%, what would be the recommended single sampling plan? What is its AOQL? 4
2. A machine is set to deliver packets of a given weight. Weights for six samples of size 5 each were recorded. Mean and range of each sample are given below:

Sample No.	1	2	3	4	5	6
Mean	14	18	16	15	17	16
Range	7	6	6	4	8	5

Draw mean chart and range chart and comment on

the state of control.

(Given, for $n = 5$, $A_2 = 0.577$, $D_3 = 0$, $D_4 = 2.115$ and for $n = 6$, $A_2 = 0.483$, $D_3 = 0$, $D_4 = 2.004$) 6

3. Practical Note book 5

4. Viva-voce 5

[Internal Assessment: 5]*[Turn Over]*