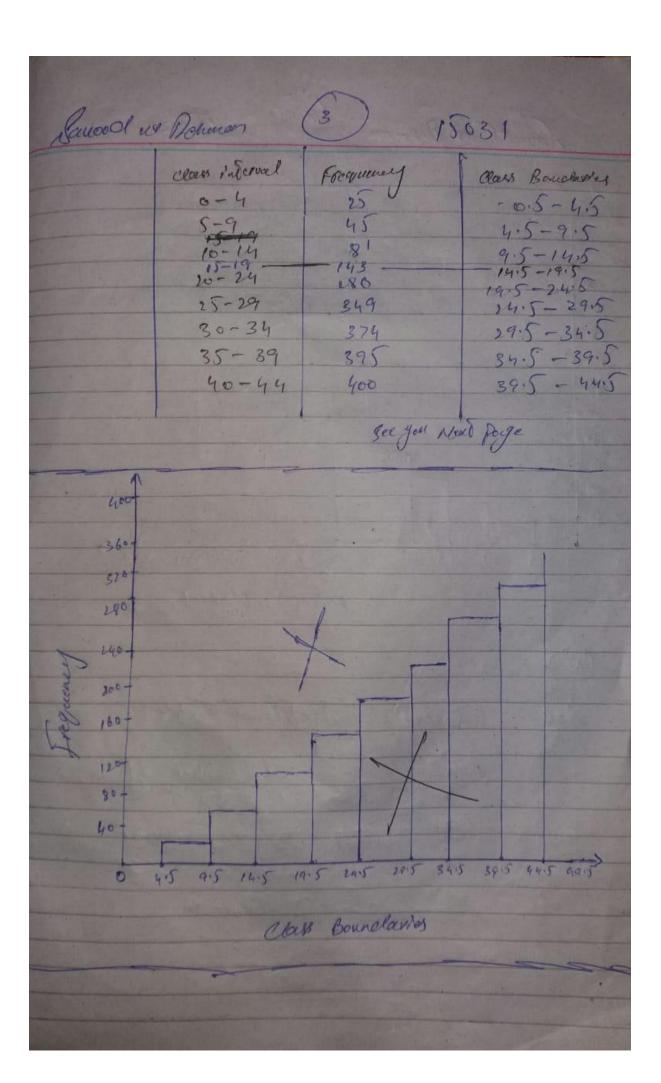
INU
IQRA NATIONAL UNIVERSITY
Name : Sauood Ur Rehman
Department : BS(CS)
Semester : 4th
ID # : 15031
Examination : Mid Term Exam
Subject : Probability and
Statistics
Submitted To:Daud Khan Khalil Sir

Dated : 19<sup>th</sup> April 2020

5 Alame Saucel as Reliman TD 15031 B3(c) 4Ph semester Dept M. Daviel STY Probability and Statistic Ans to elass Bourolan's C. T> -Frequesy cite Class ingel 25 25 0-4 0 = 4.5 2092 4.5-9.5 2067 -70 5=9 45 9.5-14.5 151 2022 10-14 81 1941 15-19 143 14.5-19.5 294 1798 . 574 19.5-24.5 20-29 280 24-5-195 923 1519 25-29 349 30-34 29.5-34.5 1169 374 1297 34.5-345 1692 795 395 35-39 39.5-44.5 40 - 44 2092 400 400 C.B. a lel of met class - cull of 25 class 2 5-4 C. B c 1 · C.B = 72 = 12 [ C.B= 0.5 ]

D Saucoclev Retiman 15031 2100 0960 C.J. 1 Sto 1690 54 1400 1264 1264 1200 1200 V 10 240 700 560 420 280 140 44.5 495 0 9.5 14.5 19.5 24.5 4.5 34.5 39.5 29.5 Class Boundaries Ans (5)



W 15031 Saucoel us Dehman 560 372 2.90 240 100 160 00 80 40 0 145 195 245 295 345 345 395 44.5 49:57 4.5 9.5 class Boundaries Ars Croup Distribution Table step 1 Count De number of 3 observation Al = 30 step 2 step 2 Smallest value Kan 2 431 Smallest value Ro = 363 »Typs Ronge; R = Km - Ko. 2 431 - 363 2 431 -363 2 B = 68

Sauced as Returnan 15031 step4 K = 1 + 3.33 (09 N) K = 1 + 3.33 (09 (30)) K = 1 + 3.33 (1.477) K = 2 + 3.33 (1.477)12 2 1+ 4.92 12= 5.92 - 7 K= 6] ( Rounding of) Reps his P/12 2 68/6 4.2 11.33 h=12 (By rounding) Frequency Classes 363 - 374 4 4 375-386 387 - 39P 8 399 - 410 7 411 - 422 4 423 - 484 8 Tally Column 34

Ð (5.31 Sucol our Dehman classowie Frequery C.J Tally class Bundary Classes eg 362.5-374.5 368.5 4 111 363-374 374-5-386-5 380.5 4 8 ull 375-386 386.5-398.5 8 392.5 16 244 111 817-398 3985-410.5 404.5. 7 HU U 23 399-410 44-422 410.5-422.5 416.5 · un 27 4 423-434 422.5-434.5 428.5 3 11 20 Mean 45 × = 423 + 369 + 387 + 411 + 393 + 394 + 371 + 377+389+409+392+408+431+401+383-+ 391+405 + 3 52 + 400 + 381 + 399+ 418+428+422+396+372+410+419+ 386+ 390 30 2 2 11914 30 2 2 397 Moele es Mode 2 l + Im-di xh (Hm-di) - (dm- f2) lette 2=387, Jm=8 fi=h, d227 h=12

Canocel eix Dehman 15031 Moele = 387 + 8-4 x 12 (8-4)+(8-7) Moder 2 387 + 4 × 12 4+1 2.387 + 4 × 12 2 387 + 48 0 387+ 9.6 2 34.6.6 396.6 1 Moele = 397 ] Quartily 5 CR. = 4 = 30 [Q, 29.5] Correspond To value in class 375-3386 Therefore  $Q_1 = l + \frac{h}{f} \left( \frac{h}{h} - C \right)$ = 375 + 12 (7.5-4)= [e>4 2 375 + 3(3.5) 2 375+ 10.5 = 385.5

8 15031 Sucoci us Relimain 2 @1 = 386 Alow Qs 2 3h 2 32 30 2 90 225 Which classespond To value in class 399+ Tourie fore Q3 = R+ h (3n - c) + (4 - c) = 399+ 12 (22.5-16) 899+12(6.5) 399 + 78 2 399+H Q= 2 410 Ans w Sol 3,6,2,1,7,5 Mean 2 3+6+2+1+7+5 244 JA700024

(9) 15031 Cancol us Dehman EX- En S. Derivollin & 2\_ n 7. 8 5.De/ 124 - 521 T - 51 36 6 4 2 2 168 9.D 49 7 25 5 6= 124 5224 8.0 = 54.7 3.0 = 2.2 Second Deita re Mean 2 11+17+9+7+19+15 6 Menn 2 7813 Mean = 13 S.D = JEn2 (En) X2 S.D 27 1126 - 60 84 X S.D = 6756-6014 30 121 289 17 9 81 49 7 361 19 225 6278 621126 5.024.3

10 Janoch w Rehman 15031 AST data Ageon 2 4 Ast data S.D = 2.2 Sclond deata region 2 13 2nd dover SD = 9.3 The required relation is Rat Men of second data is greater Par men of 1st clata and is doubte De standard derivation of 1st data. QUS Ans tes comment es No it is not obviewly Dut als The people have heren Spect can easily cross it - If he also is not renow swiming and river is not deep uniformity it is 2 feet at some parts white 7 geet an other points so he will cross No it closes not mean every staclart of hopeless Those student whose mark's are cess Now 30 Some have so marker and some studint love greater par 30 mores Trere Can be few student whose marks may be Go and or more ,

U 15031 Canool er Rehman Ans D' MO is is not true. That all the house hold servent must be paid. Addage Pay does not mean everyone get part Poy some the tring in come wou be mush more then servent CA 4 Ans es Classes fin fin N2 24 74 fi 82140 1701 5476 64-84 15 160744.5 94.5 8930.25 18 95-104 114.5 13110-25 3091.5 353976.75 27 105-124 10 1345 18090.25 1345 180902 5 6 1545 23870.25 927 143221.5 5 1745 3045025 872.5 152251.25 125-144 145-164 165-194 13 194.5 37830.28 25285 491793.29 135-204 E011575- 1201565029-75 2294 variable es 2 cfin2 - (etin)2 16649.26 - 15764.35 2 1984.9 5 = 1485 18

GR Saucoelus Perman 15031 Standasel Derivation es Talking square root of versiers st we have . JS= = 11485 1 5= 38.5