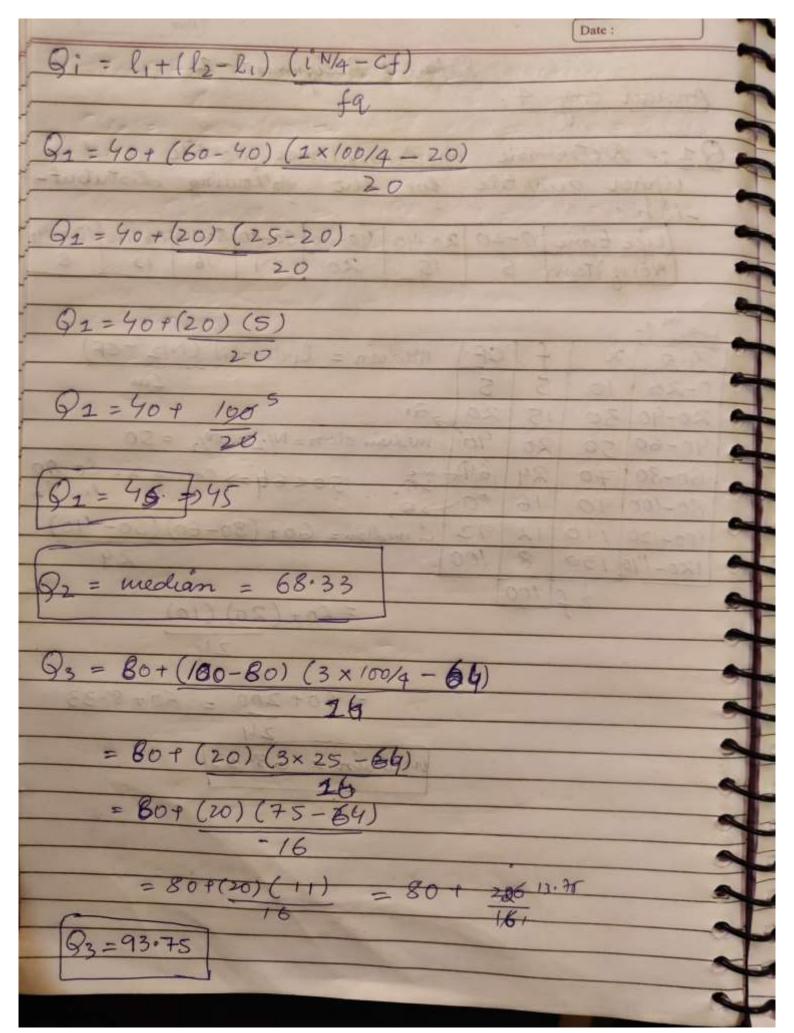
Applied Statistical Methods

DIGITAL ASSIGNMENT — I

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21MCA0269

Digital Assignment - 1 Answer any 4. 31: - Determine median, lower quartile and upper quartile for the following distribut-[life time 0-20 20-40 40-60 60-80 80-100 100-120 120-146 15 No. of items 5 20 24 16 8 400 x CF median = li+(lz-li) (N/2 -CF) 0-20 10 fm 381 20-40 30 20 15 40-60 50 20 40 mediain clam = N/2=100/2 = 50 60-80 70 (69) 50<64=> Corresp x = 60-80 24 80-100 90 16 80 " mediain = 60+ (80-60) (50-40) 100-120 110 12 92 120-140 130 8 100 100 = 60+ (20) (10) = 60+200 = 60+8.33 median = 68.33



Q. 2: The Scores obtained by Luco batsmen A and B in 7 matches are given below: Determine who more efficient who is more consistent. A 30 44 66 62 60 34 80 B 34 46 70 38 SS 7(A = 7(A) = 376 = 53.71471B = 71Bi = 351 = 50.142 TA > To ; A is more agricult than Bf Batsman A Boto mom B ス スーラマスーラン タースースースン 20 30 -23.71 562.16 -16.14 260.49 44 -9.71 94.28 46 -4.14 17.13 6.6 12.29 151.04 70 19.86 394.41 6.2 8.29 68.72 38 -12.19 147.37 6.29 39.56 60 55 4.86 23.61 34 -19.71 388.48 -2.14 4.57 48 26.29 691.16 80 9.86 97.21 60 0.03 1995.4 0.02 944.79 6A = Z(x-x)2 5A= 16.88 OB = Z(x-x) 1995.4 δe = 11:92

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Calculating Coefficient of	Vallanco :
00	
CVA = 8A × 100 = 16088 ×100	=> CVA = 31.43
527 53.7	300
CALLY AS TO	7
CVB = 0B ×100 = 11.92 ×100	=> (CVB = 23.77)
50.14 So.14	
	-1 -1 100
Since CVB < CVA is botom	ion B is more
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3.3:- Calculate the mean, variance & standard deviation for the following frequence value of Co-exicient of vacuation. 30-35 35-40 25-30 40-45 45-59 50-55 55-6 215 35 165 145 185 105 95 65 60-68 45 4.0 x; f(x-x) 32.5 35 7875 -17 0115 20-25 289 144 27.5 4537.5 -12 25-30 165 23760 6987.5 -7 49 30-35 10535 32.5 215 37.5 35-40 6937.5 - 2 740 185 40-45 6162.5 3 42.5 145 1305 800 45-50 47.5 6720 105 4987.5 50-55 169 3937.5 13 52.5 75 12675 65 3737.5 18 55-60 57.5 324 21060 23 23805 62:5 45 2812:5 60-65 1909990 40887.5 2 f 1035 Mean = &fix: 110715 40887.5 1035

