

O.R

(a) Explain C.D.R, S.D.R and Infant Mortality rate in reference to Demographic Methods. (6)

(b) From the following data of two cities which city may be regarded healthier: (9)

Age (In Years)	City A Population	Death per thousand of city A	City B Population (standard city)	Death per thousand of city B
0-6	10,000	70	4000	70
6-20	15,000	12	9000	9
20-40	30,000	4	40,000	6
40-60	25,000	36	45,000	33
More than 60	5000	130	6000	167

Que.4

(a) Explain Producer's risk and Consumer risk in reference to Product Control Techniques. (6)

(b) For a single sampling plan (50,12,1) find Producer risk and Consumer risk if AQL=0.04 and LTPD= 0.08. (9)

O.R

(a) Which plan is better in reference to cost ? (6)

Number	Plan	P_a
1	(1000,100,2)	0.79
2	(2000,300,3)	0.83
3	(3000,500,4)	0.26

(b) For a single sampling plan (1000,50,1) find Producer risk if AQL=0.04 (9)
($e^{-2} = 0.13534$)