

DATE:22-09-2018

TIME: 8-00 to 9-00

TOTAL MARKS:30

Saturday

Que.1

- (a) Define Hyper Geometric Distribution and write it's main properties and uses. (7)
- (b) Compare two city for it's healthiness from the following data: (8)

Age (In Years)	City A Population	Death per thousand of city A	City B Population	Death per thousand of city B
0-6	10,000	70	4000	70
6-20	15,000	12.34	9000	8.89
20-40	30,000	4.17	40,000	5.5
40-60	25,000	36	45,000	33.33
More than 60	5000	130	6000	166.67

O.R

- (a) Explain C.D.R , S.D.R and Infant Mortality rate in reference to Demographic Methods. (7)
- (b) There are 12 Baleno and 8 swift cars with a company. From them 5 cars are in repair in a workshop. Find the probabilities that of these cars (1) there are 3 Balenos and 2 swifts car (2) all the cars of same type. (8)