

IIHMR UNIVERSITY
The IIHMR University, Jaipur
Institute of Health Management Research
MBA Hospital and Health Management
Batch 20th (2015-2017) First Year
Essentials of Demography

Term Examination

Time - 3 Hour

M.M-70

The question paper contains 3 Printed pages.

Section-A

Attempt Any Five Questions.

5 x 10=50

Q. 1. Define Population Census. Briefly discuss about various features of population census.

Q. 2. Calculate CBR, GFR, ASFR and TFR from the following Table.

Age Group	Persons	Females	Births
0-4	83750000		
5-9	93638000		
10-14	85674000		
15-19	64037000	19150000	2025077
20-24	57307000	21345000	9092941
25-29	50747000	24998000	6927205
30-34	42442000	21843000	2705659
35-39	38895000	19970000	1129306
40-44	34212000	18170000	318073
45-49	29249000	14846000	110451
50-54	25440000		
55-59	16442000		
60-64	18155000		
65-69	9479000		
70+	15519000		

Q. 3. Discuss about age and sex pattern of Mortality.

Q. 4. Calculate SMAM for the following data till age 50.

Age Group	Percentage Single
15-19	98.96
20-24	74.31
25-29	33.09
30-34	14.11
35-39	10.74
40-44	9.28
45-49	8.91
50-54	8.75

Q. 5. Calculate the Missing Values of life table from the given data.

Age Group	Proportion Dying	No. Living at beginning of Age interval	No. Dying during age interval	Person years lived during interval	Total no. of person years lived in the future	Avg. remaining lifetime
x-x+n	nqx	lx	ndx	nLx	Tx	ex
0-1	0.01682	100000	1682			68.43
1-4	0.00754	98318	741		6744618	68.60
5-9	0.00395	97577	385	486920		65.11
10-14	0.00245	97191		485361	5865982	
15-19	0.006		582	483311	5380622	55.50
20-24	0.00825	96371	795	479869		
25-29	0.009				4417441	46.22
30-34	0.01725	94716	1634	469496	3941709	
35-39	0.02475	93082	2304	459652		37.30
40-44	0.01925	90779		449524	3012561	33.19
45-49	0.0345	89031	3072	437476		28.79
50-54	0.05175		4448		2125561	24.73
55-59	0.07275	81511	5930	392730	1706885	
60-64	0.169	75581	12773	345973	1314154	17.39
65-69	0.209	62808	13127	281222	968181	15.41
70+	1	49681	49681	686959	686959	

Q. 6. Define the following:

- 1) Life time migrant and life time migration
- 2) International and Internal Migration
- 3) Gross and Net Migration

4) Push and Pull Factors of Migration

Q. 7. Calculate UN Age Ratio Score for the following Table.

Age Group	Persons
0-4	83750
5-9	95638
10-14	85674
15-19	72037
20-24	60307
25-29	51747
30-34+	42442

Section-B

Attempt Any Four Questions.

4 x 5=20

1. Discuss about SRS.
2. Write the Assumptions of a Life Table.
3. What do you mean by $NRR = 1$, $NRR > 1$ and $NRR < 1$, Explain.
4. Explain Age Dependency Ratio.
5. Define Crude Death Rate and Age Specific Death Rate.