

Essentials of Demography

Part I: Attempt any two questions

(34 Marks)

- Q 1. Describe Demographic transition in India. **(Write max 2 pages)**
- Q 2. What are population issue in India. Describe any issue due to which India population get affected. **(Write max 2 pages)**
- Q 3. Describe different type of errors in the data.

Part II: Attempt any two questions

(36 Marks)

Each question attempted should be scanned and uploaded separately

- Q 1. Complete below Abridged Life Table for Female- India, 1998

Table: Abridged Life Table for Female- India, 1998

Age x to x + n:	nq_x	np_x	l_x	nd_x	nL_x	T_x	e_x
0	0.07350	0.92650	D	7350	94855	5890418	J
1-4	0.09197	0.90803	92650	8521	385300	5795563	62.6
5-9	0.01193	0.98807	84129	1004	418136	5410263	64.3
10-14	0.00598	B	83125	497	414384	4992128	60.1
15-19	0.00995	0.99005	82628	822	G	4577744	55.4
20-24	0.01265	0.98735	81806	1035	406443	4166658	50.9
25-29	0.01292	0.98708	80771	1044	401247	3760215	46.6
30-34	0.01390	0.98610	79728	1108	395868	3358967	42.1
35-39	0.01489	0.98511	E	1171	390171	2963100	37.7
40-44	0.01882	0.98118	77449	1458	383600	2572929	33.2
45-49	0.02567	0.97433	75991	1951	375079	2189329	28.8
50-54	0.04305	0.95695	74041	3187	362234	1814250	24.5
55-59	0.06623	0.93377	70853	4693	342534	1452015	20.5
60-64	0.11232	0.88768	66160	7431	312225	1109482	16.8
65-69	0.16430	0.83570	58729	9649	269524	797257	13.6
70-74	0.25480	0.74520	49080	12506	214137	527733	10.8
75-79	0.32636	0.67364	36574	11936	153031	I	8.6
80-84	0.46655	0.53345	24638	11495	94453	160566	6.5
85+	A	C	13143	F	66112	H	5.0

Q 2. The Population of India in 2001 and 2011 was 1028 million and 1211 million respectively. Estimate the population in 2007 if the increase in population is constant during 2001-11. If the growth continues at the same rate, estimate the population in 2021.

Q 3. Estimate the Total Fertility Rate (TFR) and Gross Reproduction Rate (GRR) of India 2011. Assume sex ratio at birth as 112 male babies per hundred female babies .

Table: Number of Birth Last Year and Number of Women, census 2011

Age-Group	No of Birth	No of Women
15-19	1,286,682	56,544,053
20-24	7,067,897	53,839,529
25-29	6,051,443	50,069,757
30-34	2,999,290	43,934,277
35-39	1,415,445	42,221,303
40-44	872,856	34,892,726
45-49	947,686	30,180,213