

International Institute of Health Management Research (IIHMR)

NEW DELHI

Batch- 2017-19

Supplementary Exams: May 2018

Time – 3 Hrs

Total marks: 100

Essentials of Demography

Instruction:

All answers are to be written on the answer sheet only. Answers written on the question paper will not be marked. Please mention the roll number on your answer sheet.

Part I:

30 Marks

Q1. Please write the full form of the **all** questions.

(15 Marks)

(i) PPIUCD	(ii) NSSO
(iii) SMAM	(iv) NSV
(v) CWR	(vi) ASFR

Q2. Define (Attempt **all** questions)

(15 Marks)

(i) Demography and Population Studies	(ii) Fecundity and Fertility
(iii) Peri-natal Mortality Rate and Neo-natal mortality rate	(iv) Total Fertility Rate and Net Reproduction Rate
(v) Demographic Dividend	(vi) Still birth and Live birth

Part II: Attempt **any five** question

(70 Marks)

Q 1. Describe **any** suitable source of Demographic data?

Q 2. Describe Demographic transition in India ?

Q 3. Describe Migration pattern in developing nations and in Europe /USA?

Q 4. Describe Coverage Errors, Content errors, sampling & non-sampling error?

Q 5. 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 2017.

Q 6. 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 7. Estimate the Total Fertility Rate (TFR) and Gross Reproduction Rate (GRR) of India 2011. Assume sex ratio at birth as 105 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