



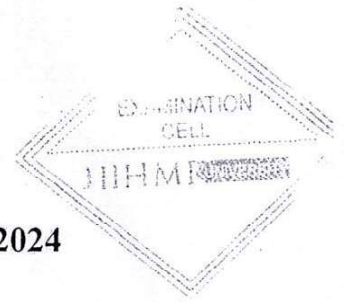
Institute of Health Management Research

MBA Hospital and Health Management

Batch-29th (2024-2026)

First Year, Term 1, End Term Examinations, December 2024

CC – 606 Essentials of Demography



Time - 3 Hour

Maximum Marks: 50 (Minimum Marks: 20)

Instructions to students:

- This question paper contains 2 printed pages.
- Don't write anything on the Question Paper except your Enrolment No.
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Part A

(Maximum Marks: 5)

Q1. Answer in one word / line (1 mark each).

- From Which census India started collecting information on migration?
- In which state Indian census was not conducted in 1981?
- For defining perinatal deaths, how many days pregnancy is required?
- How many infants will die within the first week of their life if the total infant death is 100?
- What is the gap between two censuses in Japan?

Part B

(Maximum Marks: 15)

Answer the following questions (5 mark each).

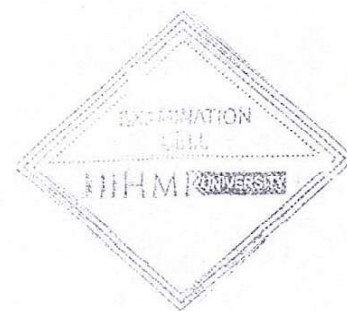
- Discuss about Chandrasekhar Demming Method of Data Evaluation
- What is a migration stream? What is counter stream? What are the various migration streams we find in the country? Which one is the highest stream in terms of volume in India?
- Calculate UN Age Ratio Score for the following Data

0-4	83750
5-9	93638
10-14	85674
15-19	64037
20-24	57307
25-29	50747
30-34	42442
35-39	38895
40-44	34212
45-49	29249
50-54	25440
55-59	16442
60-64	18155
65-69	12128
70+	15875

Part C**(Maximum Marks: 30)****Answer the following questions in detail (15 marks each).**

- Q5.** Calculate Young age dependency ratio, Elderly dependency ratio, Age dependency ratio, Child woman ratio and sex ratio from the given data:

Age Group	Persons'000	Males'000	Females'000
0-4	83750	42402	41348
5-9	93638	48254	45384
10-14	85674	45184	40490
15-19	64037	33887	30150
20-24	57307	28962	28345
25-29	50747	25749	24998
30-34	42442	21599	20843
35-39	38895	19925	18970
40-44	34212	18042	16170
45-49	29249	15403	13846
50-54	25440	13831	11609
55-59	16442	8518	7924
60-64	18155	9377	8778
65-69	9479	4763	4716
70+	15519	7855	7664



- Q6.** Fill the blanks in the given data set:

Age interval	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	0.00936	100000	936		7535810	75.36
1-4	0.001888	99064	187		7436465	75.07
5-9	0.001143	98877		494102		71.21
10-14	0.001337		132	493490	6546500	
15-19	0.004248	98632	419	492112	6053010	61.37
20-24	0.005539	98213	544	489705	5560898	56.62
25-29	0.006143	97669	600	486845	5071193	51.92
30-34	0.007706		748	483475	4584349	47.23
35-39	0.009832	96321	947	479237	4100874	42.58
40-44	0.012781	95374	1219			37.97
45-49	0.018947	94155	1784	466315	3147815	33.43
50-54	0.029371	92371	2713	455072	2681500	