

LIHMR UNIVERSITY
Institute of Health Management Research
MBA Hospital and Health Management
Batch-24 (2019-2021)
Essentials of Demography
Term Examination
1 Year
September 2019



Time - 3 Hour

MM-50

The question paper contains 4 printed page/s. Answer all Questions

Q. 1. Objective Type (Each carry 1 mark)

- a) A community has 41,650 children under age 14 and 6,800 persons age 65 and over. The total population is 85,000. The dependency ratio is: _____?
- b) Which of the following earliest treaty used the term 'census' for the first time in India?
- A. Akbaranama
 - B. Arthashastra
 - C. Rajtarangini
 - D. Ain-e-Akbari
- c) When was first census held in India?
- A. 1870
 - B. 1871
 - C. 1872
 - D. 1874
- d) Which age group is included to calculate Child Sex Ratio?
- (a) 1-6 years
 - (b) 0-5 years
 - (c) 0-6 years
 - (d) 0- 6 months

e) Consider the following statement (s) related to the reasons for low sex ratio.

I. High maternal mortality

II. Sex selective female abortions

III. Change in sex ratio at birth

Code:

A. Only I

B. I & II

C. II & III

D. I, II & III

Short type (any 5/3 marks each)

Q-2 Explain three advantages of demographic surveys like NFHS over population censuses. [3 marks]

Q-3 If the IIHMR has 1500 students now and the Board of Management decides to increase the student's body by 2% every fall, how many students will there be in 5 years? [3 marks]

Q-4 what can be the advantages and disadvantages of a decreasing population? [3 marks]

Q-5 what are the gender migration issues within India in the context of employment opportunity? [3 marks]

Q-6 Is large scale immigration a solution to ageing and declining populations? [3 marks]

Q-7 what is demographic dividend and how long is the demographic window of opportunity of different country? [3 marks]

Long Type (any one/5 marks)

Q-8 Describe and differentiate between the flowing concepts of migration with suitable example.

- I. Immigration vs international out-migration
- II. Gross vs Net migration
- III. Voluntary Migrant vs Refugee
- IV. As a student search top 10 destination for Indian Students for Internal vs International Migration?



Section B

Attempt Any Three Questions

25 Marks

1. Calculate UN Age Ratio Score for the given 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	9479
70+	15519



2. Calculate mean age at marriage for the following:

Age	Percent Single
15-19	98.96
20-24	74.31
25-29	34.09
30-34	15.11
35-39	10.59
40-44	9.28
45-49	8.91
50-54	8.73

3. Fill the Blanks for the table given below:

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			75.36
1-4	0.001888	99064	187		7436465	75.07
5-9	0.001143	98877	113	494102	7040602	71.21
10-14	0.001337	98764	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	
35-39	0.009832	96321	947	479237		42.58
40-44	0.012781	95374	1219	473822	3621637	37.97
45-49	0.018947	94155		466315	3147815	
50-54	0.029371	92371	2713	455072	2681500	29.03
55-59	0.045964	89658	4121	437987	2226428	24.83
60-64	0.070356	85537	6018	412639	1788441	20.91
65-69	0.102642		8162	377189	1375801	17.30
70-74	0.152879	71357	10909	329512	998612	13.99
75-79	0.221066	60448	13363	268832	669100	11.07
80-84	0.325242	47085	15314	197140	400268	8.50
85-89	0.463473	31771	14725	122042	203128	6.39
90-94	0.631526	17046	10765	58317	81086	4.76
95-99	0.773285	6281	4857	19262	22768	3.62
100+		1424	1424	3506	3506	

4. Write about CDR, ASDR, AADR, Perinatal Mortality Rate and MMR

