IIHMR DELHI | INTERNATIONAL INSTITUTE OF HEALTH MANAGEMENT RESEARCH

Post Graduate Diploma in Management (Hospital & Health Management)

PGDM – 2024-26 Batch

1st Year – 1st Semester End Examination

Subject & Code	:	**Demography and Population Sciences (DPS)-CC 606**	**Reg. No.:**
Semester & Batch	:	**I, 2024-26**	**Date : 31-12-2024**
Time & Duration	:	**10:30 A.M.-01:30 P.M. (3 Hrs.)**	**Max. Marks : 70**

Instructions:

- Budget your time as per the marks given for each question and write your answer accordingly.
- Don't write anything on the Question Paper except writing your Registration No.
- Mobile Phones are not allowed even for computations.

Part A: Q.1 to Q.10 all questions are compulsory (10 X 2 Marks = 20 Marks)
One liner, MCQs, True/False

1. What is population momentum?
   A. Tendency of a population to continue to decline after replacement level of fertility has been achieved.
   B. Tendency of a population to continue to grow after replacement level of fertility has been achieved.
   C. Tendency of population to move up and down after reaching replacement level of fertility.
   D. It is same as population stabilization.

2. In intermediate variables framework developed by Davis and Blake which among the following is not "Intercourse variable"?
   A. Age of entry into sexual union.
   B. Permanent Celibacy: Proportion of women never entering sexual union.
   C. When unions are broken by divorce, separation or desertion.
   D. Foetal mortality from involuntary causes.

3. Which of the following is not a measure of socio-economic status?
   A. Physical Quality of Life Index
   B. Human Development Index
   C. Gender Empowerment Measure
   D. Body Mass Index

4. Which one of the following is not a spacing method of family planning?
   (A). Hormonal Method
   (B). Barrier Method
   (C). Vasectomy
   (D). Intrauterine Device (IUD)

Contd…2..

5. In Demographic Transition Stage I is characterized by
   A. Low birth rate, low death rate
   B. Declining birth rate, low death rate
   C. High birth rate, falling death rate
   D. High birth rate, high death rate

6. What is population pyramid?

7. What is period and cohort studies?

8. What is Infant Mortality Ratio [MMR] in mortality study?

9. Explain Healthy Ageing.

10. What is replacement level fertility?

Part B: Q.11 to Q.15 attempt any four questions (4 X 5 Marks = 20 Marks)
Short Notes

11. Write a short note on "Lexis diagram and its application"

12. Why Maternal Mortality Ratio [MMR] is considered as critical indicator in health system analysis.

13. Define ASFR, TFR, and GRR and NRR with formula.

14. Explain Becker Theory of fertility.

15. Explain any one SDG of your choice in context of health system in India.

Part C: Q.16 to Q.19 attempt any three questions (3 X 10 Marks = 30 Marks)
Long Notes

16. Why does any country need a Population Policy? Does India require a uniform Population Policy or a State-specific Population Policy? Illustrate your answer with suitable logic and reference.

OR

Briefly explain the Demographic Transition Theory. How does this theory apply to the current demographic trends and challenges in a country like India?

17. Briefly discuss the three types of morbidity hypothesis using suitable example. How does health gap differ from health expectancy?

18. Discuss summary measures of population health (HALE and DALY) with suitable example

Contd…3..

19. Describe different columns of life table with its formula.

OR

Below is the Abridged Life Tables for Madhya Pradesh, India, Females, 2002–06. Write the formula and compute the value at missing places.

x	**$_nm_x$**	**$_nq_x$**	**l_x**	**$_nd_x$**	**$_nL_x$**	**T_x**	**e^0_x**
0	0.09529	0.08933	C	8933	F	5791150	57.9
1	0.02099	0.07977	91067	7265	346106	5697403	62.6
5	0.00215	A	83802	896	416770	5351298	63.9
10	0.00153	0.00762	82906	632	G	H	59.5
15	0.00242	0.01203	82274	990	408897	4521577	55.0
20	0.00256	0.01272	81285	1034	403839	4112679	50.6
25	0.00266	0.01321	80251	D	398604	3708840	46.2
30	0.00287	0.01425	79191	1128	393132	3310236	J
35	0.00341	0.01691	78062	1320	387012	2917104	37.4
40	0.00399	0.01975	76743	1516	379923	2530092	33.0
45	0.0056	0.02761	75227	2077	370940	2150169	28.6
50	0.00739	0.03628	73149	2654	359113	1779228	24.3
55	0.01202	0.05835	70496	4113	342195	1420116	20.1
60	0.02195	0.10404	66382	E	314646	1077921	16.2
65	0.03538	0.16252	59476	9666	273214	763275	12.8
70	0.10164	B	49810	49810	490061	I	9.8
take $_1a_0 = 0.3$; $_4a_1 = 1.5$; $_5a_x = 2.5$							