

M. Sc. CLINICAL RESEARCH
SEMESTER - II EXAMINATION, JUNE – 2026
(2025 Batch)

(CMCR519) POPULATION STUDIES

(Time Allotted: 3:00 Hours)

(Max. Marks: 100)

Note: Read all the instructions carefully

Answer all questions in serial order, Draw suitable diagrams wherever necessary

Q. 1. Objective type questions: (Attempt All)

(10 x 02 = 20)

(Very short/ Short answer/ MCQ/ One liners/ Fill in the blanks/ True/False)

- a. Write any two objectives of Population Studies. (CO1, PO1, PO3)
- b. Define demographic transition. (CO1, PO1)
- c. Define mortality. (CO5, PO1, PO3)
- d. Define Net Reproduction Rate (NRR). (CO3, PO1, PO2)
- e. What is the purpose of standardization? (CO3, PO2, PO3)
- f. Define dependency ratio. (CO4, PO1, PO3)
- g. What is Crude Birth Rate (CBR)? (CO5, PO1, PO2)
- h. Name any two expert committees related to health services in India. (CO6, PO3, PO4)
- i. Mention any two effects of migration. (CO5, PO1, PO5)
- j. What is the role of WHO in global health? (CO6, PO4, PO5)

Q. 2. Short notes / Short Answer Type (Attempt any five out of seven)

(5 x 4 = 20)

- a. Infant Mortality Rate (IMR) and its importance (CO5, PO1, PO2, PO3)
- b. Differentiate between internal and international migration. (CO5, PO1, PO3)
- c. Short note on rural-urban migration. (CO5, PO1, PO5)
- d. Sustainable Development Goals (SDGs). (CO6, PO3, PO4, PO5)
- e. NITI Aayog. (CO6, PO3, PO4)
- f. Short note on Bhole Committee recommendations (CO6, PO3, PO4)
- g. Demographic and Health Surveys (DHS). (CO2, PO1, PO2, PO3)

Q. 3. Structured Question (Attempt any three out of four)

(3 x 10 = 30)

- a. Discuss the importance of demographic data in policy formulation and healthcare planning. (CO2, PO1, 2, 4, 5)
- b. Describe the component method of population projection with its advantages. (CO3, PO1, 2, 3)
- c. Describe different measures of mortality (CO5, PO1, PO2, PO3)
- d. Discuss Human Development Index (HDI), Physical Quality of Life Index (PQLI), and Social Development Index (SDI). (CO6, PO1, PO3, PO5)

Q. 4. Long Answer/Essay type (Attempt any two out of three)

(2 x 15 = 30)

- a. The following data show the number of women and the number of births in different age groups in a given year. Calculate the General Fertility Rate, total fertility rate, and the gross reproduction rate, assuming that for every 100 girls 106 boys are born. (CO5, PO1, PO2, PO3)

Age Group	Number of Women	Number of Births
15–19	700	45
20–24	1150	105
25–29	1100	100
30–34	800	90
35–39	950	75
40–44	600	95
45–49	900	80

- b. Explain the role of National Health Mission (NHM) in improving health indicators in India. (CO6, PO3, PO4, PO5)
- c. What do you mean by life table? Define each column of a life table in detail. (CO5, PO1, PO2, PO3)