



LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – BIOTECHNOLOGY

SECOND SEMESTER – APRIL 2025

PBT2ME02 – PUBLIC HEALTH MANAGEMENT



Date: 07-05-2025

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

SECTION A – K1 (CO1)

Answer ALL the questions

(5 x 1 = 5)

1 Choose the best option

- a) Which source of demographic and health data is conducted every 10 years in India?
i) National Family Health Survey ii) Population Census
iii) Sample Registration System iv) Annual Health Survey
- b) The factor that is most directly related to income inequality and health disparities is
i) Gender ii) Political stability iii) Socioeconomic position iv) Language
- c) International Health Regulations (IHR) aims to
i) Promote economic trade between countries
ii) Establish global tax policies
iii) Strengthen global health security and epidemic response
iv) Regulate international travel costs
- d) Which Sustainable Development Goal (SDG) directly addresses universal health coverage?
i) SDG 3 ii) SDG 4 iii) SDG 5 iv) SDG 6
- e) Which source of health information focuses on disease surveillance and prevention?
i) Census data ii) Integrated Disease Surveillance Programme (IDSP)
iii) Retail pharmacy sales iv) Medical tourism reports

SECTION A – K2 (CO1)

Answer ALL the questions

(5 x 1 = 5)

2 Answer in one or two sentences

- a) What are the three main components of population change?
- b) How does education impact health outcomes?
- c) List the different government organizations responsible for disaster response.
- d) Explain the strengths and weaknesses of the PRECEDE-PROCEED model.
- e) Explain the concept of "equity" in the context of healthcare delivery.

SECTION B – K3 (CO2)

Answer any THREE of the following

(3 x 10 = 30)

- 3 Describe the different stages of the Demographic Transition Theory with examples.
- 4 Illustrate the relationship between discrimination and health disparities with real-world examples.

5	Outline four ways in which population census is utilized in India.
6	Identify the major barriers to achieving Universal Health Coverage in low- and middle-income countries.
7	Explain the concept of contingency theory in management.
SECTION C – K4 (CO3)	
	Answer any TWO of the following (2 x 12.5 = 25)
8	Assess the role of population policies in addressing health challenges in developing nations
9	Discuss the five groups of social determinants of health.
10	Investigate how digital health initiatives have been integrated into NHP 2017.
11	Implement PERT and CPM techniques in planning a vaccination campaign.
SECTION D – K5 (CO4)	
	Answer any ONE of the following (1 x 15 = 15)
12	Elaborate the legal responses to health emergencies with reference to India.
13	Identify gaps in current disaster mitigation strategies and suggest improvements.
SECTION E – K6 (CO5)	
	Answer any ONE of the following (1 x 20 = 20)
14	Illustrate how life tables are used to study population health and mortality trends.
15	Design a training program for community health workers to address a specific public health issue.

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