THE NATIONAL INSTITUTE OF HEALTH & FAMILY WELFARE

(DISTANCE LEARNING CELL)

POST GRADUATE DIPLOMA IN MANAGEMENT – APPLIED EPIDEMIOLOGY

SESSION 2026-2027

ASSIGNMENT – I

Theme-1: Principles and methods of Epidemiologic practice

Block-1: Introduction to Epidemiology

Block-2: Epidemiologic Study Designs

Block-3: Ethics

Theme-2: Basic Bio-Statistics

Block-1: Scales of Measurement

Block-2: Tests of Significance

Block-3: Sampling

Block-4: Interpretation of epidemiologic study data

Block-5: Use of Routine Data for Epidemiologic Purpose

Theme-3A: Epidemiology of Diseases of Public Health importance: Communicable diseases – control and prevention

Block-1: Infectious Diseases: Epidemiology and, Control and Prevention

Theme-3B: Non-Communicable diseases – control and prevention

Block-1: Recent Trends of Non-Communicable Diseases (NCDs)

Block-2: NCD Prevention

Block-3: Emerging Challenges

ANSWER ALL QUESTIONS

Maximum Marks = 10X10 = 100

1. Describe the applicability of epidemiological triad for new emerging diseases.
2. Discuss how epidemiological approach is different from public health approach with example.
3. Describe the differences of advantage and disadvantage of case control study and cohort studies suitable example.
4. Describe ethics in human research pertaining to clinical trials and enumerate the principles of Good Clinical Practices.
5. What is indicator? Enumerate different types of indicators related to health.
6. Explain parametric and non-parametric test of significance with suitable example.
7. What is sampling? Describe the types of sampling techniques used in epidemiological research
8. Critically apprise the current HMIS for public health in India
9. Discuss principles and methods of various types of prevention with examples.
10. Explain emerging infectious diseases and outline strategies used in India for prevention control these diseases.

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ASSIGNMENT – II

Theme-4A: Public Health Surveillance, Disasters and Response

Block-1: Surveillance – Why?

Block-2: Establish and Manage a Public Health Surveillance System

Block-3: Outbreak Detection and Response

Block-4: Disasters

Theme-4B: Working with Public Health Laboratories

Block-1: Public Health Laboratories

Block-2: Validate Field Findings

Theme-5: Health Research Methodology

Block-1: Health Systems Research

Block-2: Scientific Manuscripts

ANSWER ALL QUESTIONS

Maximum Marks = 10X10 = 100

1. What is polio surveillance? Discuss its significance, types and process to conduct surveillance activities.
2. Describe the challenges in the implementation of IHIP.
3. Define outbreak and epidemic. Discuss the process of an outbreak detection and response
4. Define emergency situation. Discuss the steps for emergency preparedness & response and managerial issues in disaster management.
5. Define biological disaster. Discuss in detail the approach to biological disaster management
6. Describe the role of public health laboratories and how it is integrated in the public health system contributing to policy reforms.
7. Discuss sensitivity specificity, positive product value (PPV)and negative product value (NPV) with suitable example
8. What is health system research? Discuss the step involved in designing a health system research proposal.
9. Describe the Type of man-made and natural disasters.
10. List the steps of writing a grant application/research proposal.

DIRECTIONS TO WRITE ASSIGNMENT

- Use only foolscap size paper for writing your answers.
- Only handwritten assignments will be accepted.
- **Typed or printed copies of assignments will not be accepted.**
- Tie all the pages after numbering them carefully.
- Write the question above each answer & attach copy of the Assignment questions.
- Start each question from a Fresh page.
- All assignments will be evaluated out of total mark of 100.
- Each question carries 10 marks as indicated against the question.
- Answer to all questions should be between 1000-1500 words.
- **Please ensure to send the Assignments by Speed Post Only**

SUGGESTIONS FOR WRITING AN ASSIGNMENT:

- Read the assignments carefully.
- Go through the units on which the answers are based.
- Draw a rough outline of your answer.
- Make a logical order.
- Then write your answer neatly and submit.
- Avoid copy the text from the Units. Marks will be deducted for copy & paste from modules.
- Give illustrations and tables, flow diagrams wherever necessary.
- **You must keep a Xerox copy of the answer sheets for future reference and during theory preparation.**
- Answer each assignments I and II in separate note books.
- Give an index of content with page number.
- Attach the copy of the assignment paper to the respective answer book.

On the first page of the assignment response sheet, write the following

Course Name _____	Enrollment No _____
Assignment Code_____	Name _____
Date of Submission_____	Address _____
E-mail ID_____	Signature _____
Mobile No._____	E-mail ID _____

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