

## DIRECTIONS TO WRITE ASSIGNMENT

- Use only foolscap size paper for writing your responses.
- 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.
- Start each question from a Fresh page.
- **Answer any 10 questions out of 12.**
- **Answer to each question should be between 500-750 words.**

## 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.
- Give illustrations and tables wherever necessary.
- **You should keep a Xerox copy of the answer sheets for future reference.**
- Give an index of content with page number.

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

Course Name _____	Enrollment No _____
Name _____	Assignment Code _____
Address _____	Date of Submission _____
Signature _____	Email ID _____

NATIONAL INSTITUTE OF HEALTH AND FAMILY WELFARE  
(DISTANCE LEARNING CELL)  
DIPLOMA IN APPLIED EPIDEMIOLOGY  
THROUGH DISTANCE LEARNING  
SESSION 2016-17

**ASSIGNMENT-1**

Max. Marks 100

Attempt any ten out of the twelve questions

1. What is Surveillance? Describe different types of surveillance. Explain different activities to be undertaken for Malaria surveillance.
2. Describe Cohort Study. How would you design & conduct a Cohort Study to find an association between physical exercise & risk of Diabetes.
3. Describe Rothman's Sufficient Component Cause Model. Explain Rothman's Sufficient Component Cause model for Dengue.
4. Define Incidence rate, prevalence rate & attack rate. Explain with examples.
5. What are different types of disasters? Explain disaster cycle for earth quakes.
6. What is HSR, give an example in brief of an HSR proposal you may like to conduct in your area.
7. What are different measures of association for epidemiological studies? Explain with an example the use of Attributable risk & Attributable proportion.
8. Describe in brief various determinants of sample size. How would you calculate sample size for a descriptive study? Give examples.

9. Investigators conducted a case-control study of fungal lung infections among industrial plant workers in Patancheru, Hyderabad. The following table shows the number of case (patients suffering from fungal lung infections) and controls who worked in Building X, near a recently excavated site -

	Case	Control	Total
Building X	15	8	23
Other Building	7	23	30
Total	22	31	53

- a. What is the appropriate measure of association?
  - b. Calculate this measure and discuss its interpretation.
10. What are spot maps? How do we make them & use them? Give examples.
11. What did John Snow study? Give the major findings & interpretation of his investigations.
12. What is 30 cluster sampling? Explain with an example.