	Utech
<i>Name</i> :	
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Invigilator's Signature :	

CS/MBA(NEW)/SEM-3(FT)/HSA-302/2009-10 2009

EPIDEMIOLOGY AND ANALYSIS OF HEALTHCARE INFORMATION DATA

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Objective Type Questions)

1. Choose the correct alternatives of the following:

 $10 \times 1 = 10$

- i) A disease that is present at a relatively constant, albeit low, level in a population is termed as a/an disease.
 - a) Pandemic
 - b) Common source epidemic
 - c) Endemic
 - d) Prodromal.
- ii) Which of the following terms specifically uses death as a criteria?
 - a) Incidence
- b) Pvevalence
- c) Mortality
- d) Morbidity.

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- iii) One of the fundamental premises underlying the study of epidemiology is
 - a) Disease, illness and ill-health are randomly distributed in a population
 - b) Disease, illness and ill-health are not randomly distributed in a population
 - c) Disease, illness and ill-health are only randomly distributed in a large population
 - d) disease, illness and ill-health are very rarely distributed in large opulations.
- iv) A researcher is interested in recording the number of individuals in a particular geographic region who have a common cold at some point during the month of February 2001. Which of the following measures of morbidity would be most appropriate in answering this question?
 - a) Point prevalence b) Period prevalence
 - c) Cumulative incidence d) Incidence density.
- v) The resistance of a population to an attack by a disease to which a large proportion of the members of the group are immune is referred to as
 - a) group resistance
 - b) population immunogenesis
 - c) herd immunity
 - d) the Panum effect.

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- vi) The attack rate in susceptible people who have been exposed to a primary case is referred to as
 - a) The attack rate
 - b) The post-primary attack rate
 - c) The secondary attack rate
 - d) The person to person attack rate.
- vii) It is assumed that disease can be transmitted directly or indirectly. A vector such as a mosquito is an example of
 - a) Direct disease transmission
 - b) Indirect disease transmission
 - c) Single exposure
 - d) Common vehicle exposure.
- viii) Which of the following is not a primary requirement for conducting screening for disease control?
 - a) Prevalence of the disease should be high in population in the area under study
 - b) There should be a favorable prognosis for early treatment of the disease
 - c) The government should fund the program
 - d) The disease should be serious.
- ix) Fluoridation of water would be an example of
 - a) A primary prevention strategy
 - b) A secondary prevention strategy
 - c) A tertiary prevention strategy
 - d) It is not a prevention strategy.

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- x) During the 19th century, John Snow
 - a) Proved his miasmatic theory of disease using shoe leather epidemiology
 - b) Proved that cholera was spread through contaminated water by conducting natural experiments
 - c) Was the first anaestheologist to use chloroform on a woman in labour
 - d) Hypothysed that cholera was primarily due to overcrowded conditions and malnutrition.

GROUP - B

(Short Answer Type Questions)

 $3 \times 5 = 15$

- 2. Define the terms attack rate and secondary attack rate.
- 3. Write short note Occupational environment.
- 4. Define the following:
 - a) Attributable risk
 - b) Relative risk
 - c) Odds ratio
 - d) Crude death rate
 - e) Maternal mortality rate.

GROUP - C

(Long Answer Type Questions)

 $3 \times 15 = 45$

- 5. Describe the Natural History of Disease model.
- 6. Descriptive epidemiology includes the characteristics of person, place and time. Discuss their relevance to understanding the distribution and dynamics of disease.
- 7. What is the meaning of the term geriatrics? What are the problems of geriatrics? What steps should be taken to manage the geriatric group of people?

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