



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/HM/SEM-4/BHM-401/2013  
2013**

**EPIDEMIOLOGY & ANALYSIS OF HEALTH  
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**

**( Multiple Choice Type Questions )**

1. Choose the correct alternatives for the following :

10 × 1 = 10

- i) The disease that has been eradicated till date is
  - a) Chickenpox
  - b) Polio myelitis
  - c) Smallpox
  - d) Measles.
  
- ii) The Web of causation of disease was postulated by
  - a) Pattenkofer of Munich
  - b) MacMohan and Pugh
  - c) Louis Pasteur
  - d) Sir Edward Jenner.

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- iii) BCG is a
- a) Live viral vaccine
  - b) Dead viral vaccine
  - c) Live attenuated bacterial vaccine
  - d) Dead bacterial vaccine.
- iv) Prevalence means
- a) New cases
  - b) Old cases
  - c) Existing cases
  - d) none of these.
- v) In pre-pathogenesis phase, we find
- a) the disease agent has not yet entered the body of the host
  - b) the disease has entered the body of the host
  - c) both (a) and (b)
  - d) none of these.
- vi) The most sensitive vaccine among the following is
- a) BCG
  - b) Tetanus toxoid
  - c) Live oral polio vaccine
  - d) DPT.



- vii) Infectivity of a biological agent means its
- a) ability to invade or enter a host
  - b) ability of the host to stimulate the host to produce antibodies
  - c) ability to cause disease
  - d) ability to damage the tissue cells of the host and even cause death.
- viii) Influenza is a zoonotic disease that can be conveyed to may by
- a) Pigeon
  - b) Pigs
  - c) Snails
  - d) All of these.
- ix) A contagious disease is one that is transmitted through
- a) Clothes
  - b) Surgical instruments
  - c) Contact
  - d) Fomites.
- x) Rehabilitation refers to
- a) restoration of capacity to earn a livelihood
  - b) restoration of social relationships
  - c) restoration of function
  - d) all of these.

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**GROUP - B**

**( Short Answer Type Questions )**

Write short notes on any *three* of the following.

3 × 5 = 15

2. Herd immunity of a communicable disease.
3. Levels of prevention.
4. Ice-berg of disease.
5. Incidence and Prevalence.
6. Cold chain.

**GROUP - C**

**( Long Answer Type Questions )**

Answer any *three* of the following.

3 × 15 = 45

7. Write down the environment risk factors of Diabetes. What are the different types of Diabetes ? Give the prevention and care of Diabetes. 5 + 4 + 6
8. What do you mean by Lymphatic filariasis ? Describe the natural history, risk factors & control of filariasis.
9. What is a 'cohort' ? Discuss the steps of a cohort study ? Give differences between a prospective and a retrospective cohort study ? 3 + 5 + 7
10. Explain the term 'NHD' ? How does the germ theory of disease differ from the theory of multifactorial causation of disease ? 10 + 5
11. Distinguish between the term 'epidemic' and 'pandemic'. Discuss the steps involved in the investigation of water borne epidemic.

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