Name :	
Roll No. :	Construction (1) Knowledge 2nd Excellent

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 :

 $10 \times 1 = 10$

- 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.

4029

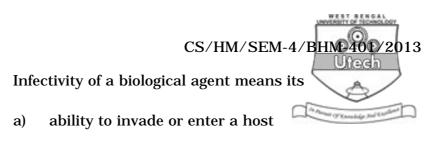
[Turn over

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

- 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.

4029





- b) ability of the host to stimulate the host to produce antibodies
- c) ability to cause disease

vii)

a)

- 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
 - Pigeon a) b) Pigs
 - Snails d) All of these. c)

A contagious disease is one that is transmitted through ix)

- Clothes Surgical instruments a) b)
- d) Fomites. c) Contact
- Rehabilitation refers to x)
 - restoration of capacity to earn a livelihood a)
 - restoration of social relationships b)
 - restoration of function c)
 - d) all of these.

4029

3

[Turn over

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

GROUP – B

(Short Answer Type Questions) Write short notes on any *three* of the following.

 $3 \times 5 = 15$

 $3 \times 15 = 45$

- 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.

- 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
- Distinguish between the term 'epidemic' and 'pandemic'. Discuss the steps involved in the investigation of water borne epidemic.

4029