

Total No. of Questions : 4]

SEAT No. :

**P840**

[Total No. of Pages : 4

**[5315]-440**

**T.Y. B.Sc. (Semester - IV)**

**ZOOLOGY**

**ZY - 346 (A) : Public Health and Hygiene**

**(2013 Pattern) (Paper - VI) (Elective - II)**

*Time : 2 Hours]*

*[Max. Marks : 40*

*Instructions to the candidates:*

- 1) All questions are compulsory.*
- 2) Neat labelled diagrams must be drawn wherever necessary.*
- 3) Figures to the right indicate full marks.*

**Q1)** Attempt the following :

**[10]**

- a) Define personal health.
- b) Define condiments.
- c) What is coronary heart disease?
- d) State any two radiation risks.
- e) State any two emergencies in industry.
- f) Define epidemiology.
- g) State any two symptoms of tuber culosis.
- h) Define food.
- i) What is biosafety for disabled persons?
- j) State any two components of soil.

**Q2)** Attempt any two of the following :

**[10]**

- a) Explain the purpose of data sampling.
- b) Give an account of properties of soil.
- c) Describe artificial ventilation system.

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**Q3)** Write short notes on any two of the following : **[10]**

- a) Methods of epidemiology
- b) Necessity of food
- c) Mechanical filtration of water

**Q4)** Explain the signs, symptoms, mode of transmission and control measures of chicken pox. **[10]**

OR

Explain the concept of sanitation with reference to disposal of refuse.



**Total No. of Questions : 4]**

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**T.Y. B.Sc. (Semester - IV)**

**ZOOLOGY**

**ZY - 346 (B) : Medical Entomology**

**(2013 Pattern) (Paper - VI)**

***Time : 2 Hours]***

***[Max. Marks : 40***

***Instructions to the candidates:***

- 1) All questions are compulsory.***
- 2) Neat labelled diagrams must be drawn wherever necessary.***
- 3) Figures to the right indicate full marks.***

***Q1) Attempt the following :***

***[10]***

- a) Define medical entomology.
- b) Define interspecific relationship.
- c) Mention any two methods of Ant control.
- d) Mention any two diseases spread by tick.
- e) State the names of any two forest pests.
- f) State the order of mosquito.
- g) Write any two control methods of bed bug.
- h) Apterygotan insect.
- i) Mention any two adaptations in head louse.
- j) Write any two names of abdominal appendages.

***Q2) Attempt any two of the following :***

***[10]***

- a) Describe the effects of flea on man.
- b) Explain veterinary entomology.
- c) Describe social organisation in termites.

**Q3)** Write notes on any two of the following : **[10]**

- a) Forest entomology.
- b) Digestive system of insects.
- c) Intraspecific relationship.

**Q4)** Describe the life cycle of Housefly. Add a note on diseases spread by it and its control. **[10]**

OR

Describe the life cycle of silverfish in brief and add a note on its distribution, damage and control measures.

