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**End Semester Examination of Semester-III, 2015**

**Subject : ZOOLOGY (HONS.) (UG)**

**Paper : ZHT-301 (Theory)**

**Full Marks : 40**

**Time : 2 Hrs**

*The figures in the margin indicate the marks  
corresponding to the question*

*Candidates are requested to give their answers  
in their own word as far as practicable.*

*Illustrate the answers wherever necessary*

**Group A**

Answer any two out of four questions : 10x2=20

1. a) Describe the life cycle of HIV stating the role of viral enzymes and coat proteins. 5  
b) What are the clinical manifestations of Filariasis? 5
2. What do you understand by Induced-breeding technique? Describe important diseases of silkworm with appropriate control measures in brief. Name the important poultry breeds reared in India. What are the merits & demerits of deep litter system? 2+4+2+2=10
3. Elucidate the different physiological adaptations of helminthic parasites to overcome the hostile environment of the host. Give a glimpse on adaptation of malarial parasite to survive inside the gut of mosquito. 7+3=10

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4. With a suitable diagram discuss the different stages of bacterial growth curve in a batch culture. Write how temperature and pH of the medium affect the growth of bacteria. 1+5+2+2=10

**Group B**

Answer **any two** out of four questions : 5×2=10

5. Mention the role of microbes in cheese production. 5
6. Schematically represent the Life-cycle of *Fasciola hepatica*. 5
7. What are different types antibiotics. Describe the mechanism of any one type of antibiotic. 2+3
8. State the advantages and limitations of integrated pest management. 5

**Group C**

Answer **any five** out of ten questions : 2×5=10

9. Name different types of silkworm reared in India with their corresponding host plant.
10. Write a note on crop rotation.
11. Differentiate between gram positive and gram negative bacteria on the basis of their cell wall structure.

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12. Name the causative agent of Typhoid fever. What is bandh breeding? 1+1
  13. Write a note on Schuffner's dots.
  14. Write a note on Royal jelly.
  15. Write a note on host immunity against gut parasites.
  16. Name the causative organism of Pebrine diseases of silk worm and state the preventive measures against it.
  17. Define paratenic host with example.
  18. Distinguish between sterilants and disinfectants.
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