

## Zoology (Hons.) Paper-VI

*Answer five questions, selecting at least two from each Group.*

### **Group-A**

1. Discuss the role of biotechnology in human welfare.
2. What do you mean by cloning vectors ? Describe the role of cosmids and shuttle vectors in Genetic Engineering.
3. What do you mean by immune response ? Describe autoimmunity and hypersensitivity type of immune responses.
4. Define antigens and antibodies. Give an account of antibody—antigen interactions.

### **Group-B**

5. Write an essay on Darwin's theory of natural selection and origin of species.
6. Describe Hardy-Weinberg law of equilibrium with salient features and examples.
7. Define zoogeographical realms. Give an account of Australian realm with subdivisions and faunal characteristics.
8. Describe the evolution of modern man.