



**DRAVIDIAN UNIVERSITY**  
**DIRECTORATE OF DISTANCE EDUCATION (DDE)**  
**KUPPAM - 517426**

**MODEL QUESTION PAPER FOR ASSISGNMENT**

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(M.Sc. Zoology II year) Set-II

**Paper-ZOO -01: CELL BIOLOGY & IMMUNOLOGY**

**Answer any three questions**

**3x10=30**

1. ?Expalin the structure and functions of mitochondria
2. Discuss the MAP kinase pathway?
3. Explain the organs of the immune system?
4. Give account on mechanism of cell mediated immunity?
5. Give account on Immunization (Active and Passive immunity)?

**Paper-ZOO -02: MOLECULAR BIOLOGY**

**Answer any three questions**

**3x10=30**

1. ?Discuss the DNA damage and repair
2. Write essay on enzymology of DNA Replication?
3. Discuss the role of antibiotics in protein synthesis?
4. Explain the PCR and its applications?
5. Discuss the blotting techniques?

**Paper-ZOO -03: ANIMAL BIOTECHNOLOGY & MICROBIOLOGY**

**Answer any three questions**

**3x10=30**

1. Discuss the Southern blotting in the analysis of recombinants?
2. Describe the Artificial insemination?
3. Give a brief account on Bacterial diseases?
4. Write essay on therapeutic compound (Antibiotics and steroids)?
5. Discuss the Rabies disease?

**Paper-ZOO -04: ENVIRONMENTAL BIOLOGY**

**Answer any three questions**

**3x10=30**

1. Give account on Forest ecosystem?
2. Write essay on impact of environmental factor on energy flow?
3. Discuss about Environment laws in India?
4. Write essay on Phytoremediation?
5. Describe the green house effect?

**Paper-ZOO -05: NEUROBIOLOGY**

**Answer any three questions**

**3x10=30**

1. Discuss the autonomic nervous system?
2. Describe the second messenger system?
3. Write essay on chemical composition of nervous system?
4. Give account on Schizophrenia?
5. Write essay on Types of synapses?