

QP CODE 2028000615

Reg.No:

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**DMI-ST.EUGENE UNIVERSITY  
DEGREE EXAMINATION – DECEMBER – 2022**

**SEM: II**

**800ZO206 ZOOLOGY II**

Time: 3 Hours

Max. Marks: 100

**Answer any Five questions (5 x 20 = 100 Marks)**

1. a) Write a detailed account on Lamarckism. (7 Marks)  
b) Discuss in detail the Theory of Natural Selection. (7 Marks)  
c) Compose a note on Iodine as a growth nutrient. (6 Marks)
2. a) Write a detailed note on Tuberculosis (TB). (6 Marks)  
b) Explain the Composition of plasma : Components with Functions. (4 Marks)  
c) Write a note on Alzheimer's Disease. (5 Marks)  
d) Discuss the Dynamics of filtration in excretion. (5 Marks)
3. a) Write a short note on the History of Medical microbiology. (5 Marks)  
b) Explain in detail Innate Immunity (Non-specific). (10 Marks)  
c) Discuss briefly Antibody-mediated Immunity / Humoral Immunity. (5 Marks)
4. a) Discuss Karyotyping. (4 Marks)  
b) Write a detailed account on Genetic Diseases. (10 Marks)  
c) Write a composition on Transgenic organisms : Genetically Modified Organisms (GMOs).  
(6 Marks)
5. a) Write an account on the Reasons for Population Explosion. (5 Marks)  
b) Explain the Effects of Global warming. (5 Marks)  
c) Discuss how waste is classified. (5 Marks)  
d) Discuss the Reasons for freshwater shortages. (5 Marks)
6. a) Discuss the Application and Uses of Recombinant DNA Technology.(5 Marks)  
b) Compose a detailed account on the Cloning of Sheep(mechanisms). (10 Marks)  
c) Explain Gene therapy.(5 Marks)
7. a) Discuss Viral genetics. (6 Marks)  
b) What is involved in Acquired Immunity (Specific immunity)? (8 Marks)  
c) Write a note on Antigenic determinants and epitopes. (6 Marks)