



# UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program : Third Semester – Fall 2021

Roll No. ....

Paper: Zoology-III (Biochemistry)

Course Code: ZOOL-201

Time: 3 Hrs. Marks: 60

**Q.1. Answers the following short questions: (6x5=30)**

- i. Classification of amino acids
- ii. Structural and functional diversity in globular proteins
- iii. Structure and major functions of starch and cellulose
- iv. Major functions of terpenoids and sterols
- v. Energy variation with increasing trophic levels
- vi. Mutation pressure and selection pressure

**Answers the following questions. (3x10=30)**

- Q.2** What is meant by Immunoglobulins? Discuss its types. **10**
- Q.3** Write about basic global ecosystems (atmosphere, hydrosphere, lithosphere, and ecosphere). **10**
- Q.4** Give comprehensive note on factors initiating elementary evolutionary changes. **10**