6. Write a note on how gene mutations and chromosomal mutations are similar. 10

7. What are the four main types of enzymes? Discuss their functions and mechanisms of action. 10

Or

8. Give the classification of carbohydrates and discuss their biological significance. 10

9. What is gametogenesis and discuss their various stages. 10

Or

10. Differentiate between gemetogenesis and gamete transfer. 10

****

UG Odd Semester Examination, 2022

EDUCATION B.Sc. B.Ed

(5th Semester)

Course No.: BSZP-502

(Cell Biology, Genetics, Biochemistry, Development Biology)

Full Marks: 50

Pass Marks: 20

Time: 2 hours

The figures in the right margin indicate full marks for the question.
Answer the following five (5) questions

1. In details discuss the structure, composition and functions of animal cell. How will you differentiate animal cell from plant cell? 6+4=10

Or

2. Discuss the various stages of meiotic cell division with help of a neat diagram. 10

3. Discuss the various types of chromosomes in human cell along with their shapes and functions. 10

Or

4. Differentiate between Lambrush and Polytene chromosomes. Briefly write the importance of special chromosomes? 8+2=10

5. Write a brief note on theories of linkage (differentiate multiplication theory and chromosomal theory). 5+5=10

Or