

# BOTANY – MAJOR - 601

## Molecular Biology and Plant Biochemistry

### Semester-VI

Write any two assignments of the following. (500 words)

#### ASSIGNMENT:

1. Write a note on structure and organization of gene.
2. Write the general characteristics of essential vs nonessential Amino acids.
3. Discuss the role of Nitrogen metabolism in day today life.

#### INTERNAL ASSESSMENT

15 MARKS

Answer any one from the following

Marks -5

- i. Describe with examples of Lac operon model the expression and regulation of gene.
- ii. Write concept of exons and introns.
- iii. Discuss on enzyme as biocatalyst.

Answer any one from the following

Marks -10

- a. What are the functions of DNA polymerases? Describe on these enzymes are essential to DNA replication.
- b. What do you mean by point mutation? Discuss the point mutation transition.
- c. What are carbohydrates? Classify the carbohydrates with example?

@ @ @ @ @ @ @ @ @ @ @ @ @ @ @