

GROWTH, DEVELOPMENT AND BIOTECHNOLOGY - II

Semester-V

Time : Three Hours]

[Maximum Marks : 35

Note : Attempt two questions each from Section A and B carrying 6 marks each. Section C compulsory consisting of 11 short answer type questions carrying 1 mark each.

Section - A

- I. Discuss the different growth phases in the life of a plant.
- II. What is Photomorphogenesis ? Give its importance ?
- III. What is Abscission ?
- IV. Discuss Seed dormancy.

Section - B

- V. Discuss the various Cloning vectors.
- VI. What is Chromosome walking ? Discuss all the steps involved.
- VII. What is Embryo culture ? Give its applications.
- VIII. Discuss the application of biotechnology in industry with examples.

Section - C

(Compulsory Question)

IX. Answer briefly :

- (a) What is the physiological effect of abscisic acid ?
- (b) What is Senescence ?
- (c) What is Seismonasty ?
- (d) Define Vernalization.
- (e) What are Sleeping movements ?
- (f) What is Electrophoresis ?
- (g) What is Bt plant ?
- (h) Define Synthetic seed.
- (i) What is Totipotency ?
- (j) What is Molecular farming ?
- (k) Differentiate between the action of Auxins and Gibberellins.