

**PC-504**  
**M.Sc. Botany (FOURTH SEMESTER)**  
**Examination- JUNE-2020**

Optional  
Elective – I (B)  
Paper-IV  
**WEED BIOLOGY-II**

**Time:- Three Hours ]**

**[Maximum Marks:80**

नोट : दोनो खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित है।

Note: Answer from both the section as directed. The Figures in the right-hand margin indicate marks.

**Section-A**

**1. Answer in very brief** **1x10**

- (a) What is germination?
- (b) Who proposed "safe site concept"?
- (c) What are Herbicides?
- (d) Name the chemical which is used to test seed viability?
- (e) When was the chemicals first introduced to control weeds?
- (f) What is the trade name of Butachlar?
- (g) What is the chemical name of Nitrofen?
- (h) Name any two bioherbicides.
- (i) Give the name of four aquatic weeds of your area.
- (j) Give the full form of D.R.B.

**2. Answer the following question in very concise manner.** **2x5**

- (a) Define biological weed control with example.
- (b) Differentiate between selective and non-selective herbicides.
- (c) Comment in very brief on 2, 4-D.
- (d) What is the difference between contact and translocated herbicides.
- (e) Give any 2 precautions while using herbicides .

**Section B**

**3. What is the role of light in germination of seeds with special reference to weeds.** **15x4**

OR

Write note on :-

- (a) Seed longevity
- (b) Safe-site concept.

**4. Describe fungi-based biological control in detail.**

OR

Write notes on:-

- (a) Concept of Integrated weed management
- (b) Difference between Prevention, Suppression and Eradication.

**5. How the herbicides are classified. Give a detail account of classification of herbicides ?**

OR

Write an account on "Application methods of Herbicides and precautions to be taken while handling herbicides.

**6. Write an article on Aquatic weed management.**

OR

Describe the chemistry of Butachlor and Nitrofen.