

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 हैं।

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 Butachlor?
- (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.