1/33

1505E562

Candidate's Seat No :

M.Phil Science Examination Paper-II: Life Science

Time: 3 Hours]

рег-и : Lue Scien Мау-2017

[Max. Marks: 70

Instructions:

All questions carry equal marks All questions are compulsory.

Illustrate your answers with neat diagrams wherever necessary

1.

(A) Discuss the Immunogenetics and its advantages.

OR

- (A) Explain the Types of Cytokines and their importance.
- (B) Discuss the Complement Fixation Pathway and its significance.

OR

(B) Discuss the Transplantation Immunology.

2.

[14]

[14]

(A) Discuss the characterization of Animal cultured cells.

OR

- (A) Discuss the requirements and laboratory set up for Animal cell culture.
- (B) Explain the Nutritional mediums for plant tissue culture.

OR

(B) Explain the production of Secondary metabolites and their applications.

3.

[14]

(A) Discuss the toxic effects and importance of LD₅₀, LC₅₀ and IC₅₀.

- (A) Explain the Units of toxicity and estimation of toxicity.
- (B) Define Toxicants. Describe classification of toxicants with suitable examples.

OR

(B) Discuss Food Additives and their implications.

4.

[14]

(A) Explain the dynamics of Ecosystem with structural organization.

OR

- (A) Discuss the Biotic and abiotic interactions with suitable examples.
- (B) Explain the causes and effects of Ozone depletion.

OR

(B) Why Wild-life should be conserved? Discuss strategies and criteria for conservation and management of Wild-life.

5. Answer Any Two

[14]

- (A) Explain Primary and Secondary immune modulation.
- (B) Discuss the Cell Differentiation.
- (C) Discuss the role of Water pollutants.
- (D) Discuss the Teratogens and their implications.

.____