Roll No.

(07/21-II)

M. Sc. EXAMINATION

(For Batch 2017 & Onwards)

ZOOLOGY

(Fourth Semester)

Z00-401

Immunology

Time: Three Hours

Maximum Marks: 70

Note: Attempt Five questions in all, selecting one compulsory. question from each Unit. Q. No. 1 is

- 1. Write short notes on the following : $5\times2=10$
- Primary lymphoid organs
- **(b)** Dendritic cells
- <u>o</u> Immunoglobulins
- (a) Innate Immunity
- @ Natural killer cells.

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2. Explain the cell types of innate immunity along with their DC markers.

Or

3. Describe the fate of haematopoiesis upto cellular lineages.

nit II

 Describe different antibody classes and their biological activities.

Or

5. Illustrate the CDRs and Constant region
Domain in various antigenic determinants on
Immunoglobulins.

Unit III

6. Describe the regulation mechanism of complement system.

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Or

7. Explain different Cytokine related diseases in detail.

Unit IV

8. Describe any *two* organ specific autoimmune diseases.

97

9. Explain different varieties of ELISA. 15

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